

**INSTALLATION RESTORATION
PROGRAM (IRP)
SITE INVESTIGATION REPORT
FOR IRP SITE NO.4**

**VOLUME II
APPENDICES A-C**

**128th AIR REFUELING WING
WISCONSIN AIR NATIONAL GUARD
GENERAL BILLY MITCHELL FIELD
AIR NATIONAL GUARD BASE
MILWAUKEE, WISCONSIN**

MARCH 1996



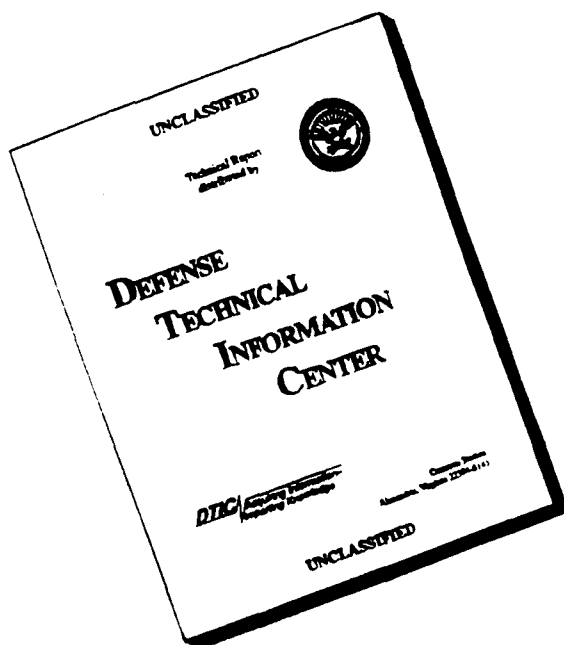
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**HQ ANG/CEVR
ANDREWS AFB, MARYLAND**

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4. TITLE AND SUBTITLE Site Investigation Report for IRP Site No. 4, Wisconsin Air National Guard, 128th Air Refueling Wing, General Billy Mitchell Field, Milwaukee, Wisconsin - Volume II, <i>Appendices A-C</i>			5. FUNDING NUMBERS	
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Operational Technologies Corp. 4100 N.W. Loop 410, Suite 230 San Antonio, TX 78229-4253			8. PERFORMING ORGANIZATION REPORT NUMBER	
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11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Site Investigation Report for IRP Site No. 4, Wisconsin Air National Guard, 128th Air Refueling Wing, General Billy Mitchell Field, Milwaukee, Wisconsin, Volume I. This is the first volume of a three volume site investigation report. One site (Site 4 - Base Drainage Ditch) was investigated under the Installation Restoration Program. Soil and groundwater samples were collected and analyzed. A Remedial Investigation was recommended to (1) further delineate the impacted soil and groundwater in the southern/southwestern area of the base and the area of Bailey's Pond, (2) determine background conditions for the soil and groundwater in the area, and (3) evaluate potential sources of contamination in the soils near Buildings 107 and 108.				
14. SUBJECT TERMS Installation Restoration Program; Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); Air National Guard; Site Investigation, Wisconsin Air National Guard; Milwaukee, Wisconsin			15. NUMBER OF PAGES 134	
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MILWAUKEE, WISCONSIN**

MARCH 1996

Prepared For
**HQ ANG/CEVR
ANDREWS AFB, MARYLAND**

Prepared By
**Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253
(210) 731-0000**

APPENDIX A
SURVEY REPORT
AND
FIELD NOTES

N.W. COR OF
SEC. 34-7-22
N 351,418.17
E 2,564,932.84
ELEV. 867.58

NORTH LINE OF THE NORTHWEST
TOWN 7 NORTH, RANG

127

107 108

109

116

128

112

113

114

PS001	351,512	2,565,818	664.1	PS026	349,347	2,565,800	673.6
PS002	351,454	2,565,909	664.0	PS027	349,425	2,565,507	673.4
PS003	351,411	2,565,878	664.1	PS028	349,398	2,565,436	673.0
PS004			NEVER FOUND	PS029	349,540	2,565,903	673.7
PS005	351,604	2,565,909	663.5	PS030	349,628	2,565,823	672.4
PS006	351,508	2,565,642	664.7	PS031	349,608	2,565,498	673.4
PS007	351,333	2,565,311	667.2	PS032	349,716	2,565,520	673.1
PS008	351,218	2,565,176	667.8	PS033	349,866	2,565,568	672.0
PS009	351,074	2,565,139	667.9	PS034	349,819	2,565,283	673.0
PS010	350,991	2,565,135	668.5	PS035	349,976	2,565,891	670.5
PS011	350,828	2,565,118	668.8	PS036	350,012	2,565,248	668.3
PS012	350,426	2,565,057	669.8	PS037	350,098	2,565,739	671.3
PS013	350,219	2,565,047	671.1	PS038	350,078	2,565,960	673.8
PS014	350,000	2,565,058	670.0				
PS015	349,855	2,565,011	668.3				
PS016	349,743	2,565,026	668.5				
PS017	349,675	2,565,143	672.0				
PS018	349,467	2,565,018	671.1				
PS019	349,370	2,565,173	669.3				
PS020	349,379	2,565,065	670.4				
PS021	349,328	2,565,429	672.5				
PS022	349,349	2,565,509	674.0				
PS023	349,295	2,565,635	673.9				
PS024	349,327	2,565,742	671.2				
PS025	349,310	2,565,958	675.3				

MONITORING WELLS

	NORTHING	EASTING	GROUND ELEV.	CASING ELEV.	TUBE ELEV.
WELL 1	349,360.58	2,565,014.59	672.7	675.17	675.55
WELL 2	351,021.71	2,565,092.39	670.8	672.23	672.25
WELL 3	350,030.75	2,565,159.91	670.6	673.64	673.61
WELL 4	349,314.81	2,565,491.10	673.56	675.96	676.19
WELL 5	349,530.49	2,565,905.45	673.8	676.20	676.43

PIEZOMETERS

	NORTHING	EASTING	GROUND ELEV.	TUBE ELEV.
PZ1	351,157.94	2,566,059.44	670.72	MISSING
PZ2	351,113.33	2,565,104.87	669.59	670.60
PZ3	349,628.82	2,564,985.67	670.66	670.93
PZ4	349,206.19	2,565,946.96	670.93	672.29

SCALE N 1" = 150'

COORDINATES ARE BASED ON THE
WISCONSIN STATE PLANE COORDINATE SYSTEM
AT GROUND LEVEL

PROJECT

SOIL BORINGS
MONITOR WELL LOCATION
BILLY MITCHELL FIELD
1723 W. GRANGE AVE.
MILWAUKEE, WI

PROJECT NO.

94546

DATE

NOVEMBER 3, 1994

REVISIONS

1-18-95, CORRO'S & LOCATION FOR
WELL NO. 4
1-27-95, PIEZOMETER LOCATIONS AND
ELEVATIONS
2-16-95 COORD'S

ENGINEER / SURVEYOR

MATTHEW E. WEST
NIENOW ENGINEERING ASSOC. INC.
(414) 963-4022

PREPARED FOR

OPERATIONAL TECHNOLOGIES CORP.
4100 N.W. LOOP 410 SUITE 230
SAN ANTONIO, TX 78229-4253
(210)731-0000

DRAWN BY

CLW

CHECKED BY

MEW

SCALE

1" = 150'

SHEET TITLE

BILLY MITCHELL FIELD
1723 E. GRANGE
MILWAUKEE, WI

SHEET NO.

1 OF 1



349,347	2,565,800	673.8
349,425	2,565,507	673.4
349,398	2,565,438	673.0
349,540	2,565,903	673.7
349,628	2,565,823	672.4
349,608	2,565,498	673.4
349,716	2,565,520	673.1
349,886	2,565,568	672.0
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3	350,030.75	2,565,159.91	670.6	673.64	673.61
4	349,314.81	2,565,491.10	673.56	675.98	676.19
5	349,530.49	2,565,905.45	673.8	676.20	676.43

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	349,206.19	2,565,948.96	670.93	672.29

349.425	2,565.507	673.4
349.398	2,565.436	673.0
349.540	2,565.903	673.7
349.628	2,565.823	672.4
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	349,206.19	2,565,948.96	670.93	672.29

SCALE N 1" = 150'

TEM

~ LEGEND ~

- ⊕ - DENOTES MONITORING WELL
- ⊙ - DENOTES SOIL BORINGS

ENGINEER / SURVEYOR

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SCALE

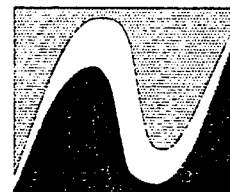
1" = 150'

SHEET TITLE

BILLY MITCHELL FIELD
1723 E. GRANGE
MILWAUKEE, WI

SHEET NO.

1 OF 1



Nienow

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ASSOCIATES, INC.

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MILWAUKEE, WI 53217
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FAX (414) 963-4028

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CHECKED BY
DATE
SCALE
TALK TO ME

DATE
SCALE
TALK TO ME

DATE

9-15-16

104-11115

104-11115

104-11115

LT. Rob A. Huelzman
(414) 747-4186
128th Air Refueling Group
1723 E. Grange Ave
Milwaukee, WI
53207-6449

TARGET:

Charley Thompson
(414) 492-6622
Beeper (414) 407-5090

M. Craig Hawkins

Brian Niskey

17 OCT 94

0900 Met at SA airport and
traveled to Milwaukee

0800 Arrived at The Grand
Milwaukee Hotel

1800 Located 128th Wisconsin
ANG-B.

1900 Dinner

2130 Went to Milwaukee
Airport to pick up
John Morris

2230 END OF DAY

A. K. M.

18 OCT 94

0715 Met for 1st day scheduling.

John M, Mark E, Rubin D

Kathleen. Discussed schedule,
sub contractor arrival,
supplies

0830 Met w/ Lt. Robert Huelmsman
discussed utilities,

sample locations, Diggers
Hotline 800 242-8511,

Base CE Maj. Steve Ford
Asst. CE Cap. Cindy Wickman
(414) 747-4425

Ruth Lodoler to arrive
this afternoon

Weston rep (Amdco) to
arrive this afternoon

Additional Contacts on base

Lisa Broderick

Curt Ignasik

[Handwritten signature]
20

Need clearance from
Rob Huelsman for
access of ramp. (Need
clearance from base
commander)

WDNR contact: Margaret Garret

Drum Locations in Haz Waste
Shed, if full next to
shed under a tarp

Thurs. Air Emission Rep
from WDNR

0950 Met at CE Office w/
Capt. Wickman

04-002PS } Locations in
04-003PS } Water main
04-001PS } Do these in
04-004PS } Current
channel.

This represents
old channel,
not like current

~~no entry
on 11/11/04~~

• Mark map of sample locations to give to CE on large maps

Contact AP rep. to let know that we will be on flightline
Tom

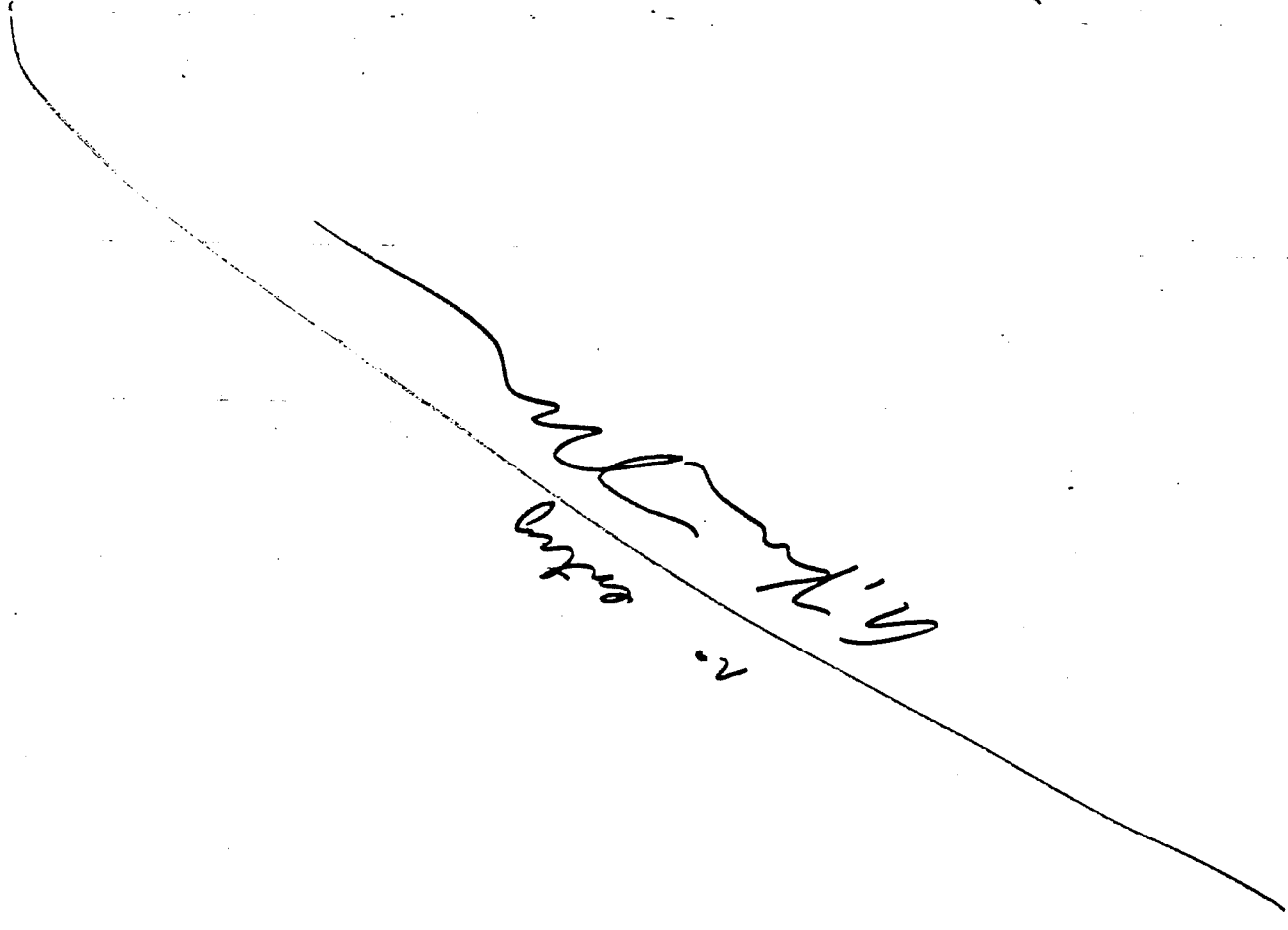
1030 Toured site w/ Rob Huelsman

1130 Lunch

1230 Returned to Hotel - mapped out locations on large base map

1400 Met w/ RH & Ruth Lodder

1430 ~~beg~~ ^{Allen} Conducted site tour w/ RH, Ruth & Curtis Nichols (R.F. Weston rep for Amoco). All soil locations staked during tour



1700 Finished staking soil
locations

END OF DAY
A. K. M.

No action
on

A. K. M.

19 OCT 94

0700 Met in Hotel Restaurant
for team meeting

0730 Target = reps arrived

Craig Hawkins
Brian Miskey

0800 Discussed decon and
site history w/ Target

0900 Made phone calls, etc

0000 Org. sampling bottles.
(Waiting for Target to
track down supplies)

LAB QUESTIONS: 7000 (P3)

- Soils, 8020, 8310 Why container for
soil when we are sending brass
sleeves

1200 Lunch

*no
entry
H. M. C.*

1330 Arrived at base w/ Target to
Stake piezometer
locations, and give map
to Capt. Wickman.

1545 Finished staking location

1630 Showed Target where to
set up decon pad and
discussed decon
procedures

1700 Decided to start probe
pts in the morning
so that Target could
verify all supplies

END OF DAY

A. Kr. M.

Wickman
in
V

20 OCT 94

0630 Hotel breakfast

Info to be logged:

- ID #
- Strat operator's ges
- Date, method of installing
- Hole size
- Reference for all depth measures
- Soil description, including moisture
- depth to distinct stratum
- sampling method & depth
- depth to GW
- PID reading
- Hole location & elevation
- TID

Weather cloudy, cold, breezy
temp in low-mid
50's in AM.

W. M. M. M.
W. M. M. M.

0715 Arrived on site

Target's generator ~~was~~
~~was~~ not operating
properly.

0730 Gave H&S briefing

0830 Calibrated PID, organized
sampling equipment

0930 Steam cleaner has a
problem w/ pressure.

0945 Began decoring drive
rods, after fixing steam
cleaner

0000 Decored strat. probe

1115 Tested PID w/ marker
Ambient air prior to
probing PID = 0.0

no entry
N. Thompson

1 1/2" hole size

04-003 PS Craig Mawins Strat
Kathleen Morris Geo

0-1 PID = 43.1 ^{amb} 80.1 ^{amb} 139.4 ppm

(PID continued to

rise for 30s - 60s)

Amb PID at hole = 16.6 Breath zone

1-3 PID = 138 ppm ✓

0-1 Clay, w/ silt (mostly? = 50-100%)
lots of organics, dark
brown to black. Slightly
moist. (ox)

(1-3) same as above

Amb PID = 8.9 ppm ✓

5-7 PID = 28.3 ppm

clay, brown, wet

A PID (0-1 ^{amb}) = 196 ppm

Amb PID = 0.3 ppm Breath zone

APID (1-3) = 26.1

Collected H₂O sample

1345 LUNCH

04-002-PS

0-1 PID = 0.0

clay, organics w/ roots, moist
dark grey to black

1-3 PID = 0.0

Amb PID = 0.0 Breathing zone (BZ)

5-7 clay w/ sand, black, very moist
P = 1.8

Amb PID = 0.0 BZ

UV iter encountered ~6' BLS

04-002 PS

1545 Hole collapsed preventing bailer or jiggle tube from obtaining a water sample. Since both methods failed, an alternate method was planned. Next to hole drilled push hole, leave back off 2' leaving 21 feet of space between Total depth and the last pipe. Then to bail for gw.

1645 This method still produced too much sediment to produce enough water for sample.

1650 A New alternate method will be tried. Piezometer screen will be lowered into the hole, a no additionally cost from Target. 5' section will be used to prevent sediment from going into the hole.

1715 Left screen in hole to allow setting of sediments overnight.

1720 Began cleaning up site

1750 Trip blanks were left in clinic, so sampler will go to Fed EX 15T tomorrow ENOORPH

21 OCT 94

(14)

~~Dis~~

0600 Met for breakfast +
discuss days events.

0700 Arrived at site, observe
probe decon. Began
site prep

0745

Discussed QA/QC samples
w/ Bill Hedberg &
Ruth Lodder.

Agreed to split the
thick field blanks
between potable water
& deionized water

50%

Dan Waltz ~~QA/QC~~ QA/QC
- Equipment samples
ask told by Ruth Lodder

0845

Meas. of 04-002 PS from R=60%
TOC to top of H₂O = 2.62'
Depth to bottom of hole = 9.5'
(sediment bottom hard
to tell actual bottom)

$$Vol = 2\pi r^2 L = 2(3.14)(1.75'')(7') = 0.016 \text{ gal}$$

Purged ~1 gal from 04002 PS

0900 Began pushing 04-001 PS

Ans B2 PID = 0.0
R = 100%

0905

0-1 PID = 0.0

Fill Soil, organic w/ roots, black, dry

0915

1-3 PID = 0.0

Clay, light brown, slightly
moist, some organics w/ roots

not in file

5-7' BZ = 0.0 R = 100%

PID = 0.0

Clay, light brown, slightly moist

1-3 inches 04-001 PS_R = 100%

PID = 0.0

BZ PID = 0.0

1000

Set piezometer in well to try
and get H₂O

1015

Collected water sampler
from 04-002 PS

Ambient PID for 5-7 = 0.0

04-001 PZ

100%

GS → TOC = 2.7'

TOC → Top of H₂O = 6.31

1105 hand

[Handwritten signature]

1200 Took QA/QC samples
Equip. Steamer (portable)
bailer
tubing
split spoon
Field Blank - potable (through
steamer)
deionized H₂O

04-006 PS

1330

Surface - 1"
0-1" Fill, organics w/ roots,
(live worm) sandy soil,
brown, slightly moist

1-3' PID = 0.0 100%

Sandy, silty, soil, dry black
some clay

ATWA = 0.0

5-7' PID = 0.0 100%

Sandy, silty, soil, wet, gray
ATWA = 0.0

1415

Set piezometer screen in
04-006 PS

1440 Depth TOC \rightarrow water
= 4.66'

05 \rightarrow TOC = 1.5'

04-005 PS

1540

PI0 = 0.0

0-1' fill, clay, organic, slightly
moist, w/roots, dark brown

~~ATHA =~~

1'-3' clay, dark brown, w/roots,
slightly moist

PI0 = 0.0 R = 100

ATHA = 0.0

5'-7' clay, gray, slightly moist
R = 100

PI0 = 0.0

ATHA = 0.0

1610

No water in well piezometer

W. J. Murphy
10/20/20

1620 Began cleaning up.

Preparing Chain of Custody

1800 Doff samples

at FedEx

Kathleen departed on Sunday,
Oct. 23, 1994 to Utah Site.

I will continue logging on
this log book.

Kathleen Kathleen

20
m
g

Highway

No. 20
C. W. Wilson
C. W. Wilson

Mon. 10-24-94

Cloudy, breezy, 42° to warm up to 50-52°
for high, wind \approx East west to east
direction

0720

Met at Ground Base

Steve Wilson came in yesterday
for Kathleen who went to Utah yesterday
Had tailgate briefing
Jeff to meet w/ city until today \approx 0930
& call John M.

0730

Obtained ice for samples

0800

Returned to Bailey's Pond Area

0830

Water Sampled [04-001PS]

GS - TOC = 2.6'

TOC - Top of Water = 4.6'

bottom TOC - bottom = 9.6'

Moved to next PS to water

sample - [04-005PS]

0900

Enroute to 04-005PS -

Start

0930

Craig pulled Bryan's truck

Out

C. W. Wilson

10-24-74

0940

RS-Q 04-005PS

GS ~~80~~ → TOC = .7'

TOC → top of H₂O = 3.1'

TOC → bottom of H₂O = 9.3'

collected water samples

Steve want to check

w/ Guard if okay to cross

passway for next punch

hole

1015

04-007PS

1105

0-1' Fill ^{clay} roots, black to 1113

14 brown ~~clay~~, dry

1'-3' Clay, brown, little moist

~~11-13~~ to dry

~~5-11~~

PIB = 0.0 R = 100%

ATHA = 0.0

5'-7' Clay, black, slightly moist, 1130

no organics - need to go deeper

PIB = 0.0 R = 20%

ATHA = 0.0

7'-9' Clay, black, ^{little} sand, ^{dry?} 1145

very little recovery

PIB = 0.0

ATHA = 0.0

R = 10%

Julie Gayle

No further work

10-24-94

Will move over a little to try 1215
get better recovery - go down
to 5'-7'

5'-7' Clay, black, 1220

some ~~little~~ moisture

$R = 20\%$

$PIO = 0.0$

$ATH-A = 0.0$

Not much recovery, only enough
for 1 VOC, to be sent to lab

+ GPO-(1) - 1 of each GPO & DRO

Driller will go 10'-12' & see if H₂O
will ~~be~~ be found.

10%?

10'-12' (got ~~that~~ some recovery) 1245

Clay, moist, dark gray

w/ some shell

Driller to run screen into
hole

No samples sent to lab

from this hole

Lunch

Return to base

1315

1345 ~~1315~~

Ruth Carter

No
any
Further
Data

Not in
bottom profile

10-24-94

1430

✓ 04-008PS

11-3' 0'-1' Fill soil, clay, w/roots, 14 brown, dry
PID = 2.1

11-3' Clay, hard, dry, 14 brown, 1435
some gravel, w/roots
PID = 3.8
ATHA = 1.3
R = 100%

5'-7' Clay, ~~dry~~ little moist, 1445
14 brown, soft.
PID = 6.0
R = 20%

8'-10' Clay, moist, dark gray, 1510
soft.
PID = 13.3
R = 60%

T.D. @ 15'
not sampled from 10'-15'

Drillers to decar equip.

✓ 04-009PS

1615

0'-1' Fill, w/roots, brown
PID = 0.0
ATHA =

11-3' Clay, w/roots, brown, hard, 1630
dry, little rock pebble
ATHA = 2.0 240
PID = 0.0
REC = 100%
200

Richard Porter

10-24-74

3'-5' No Recovery

1640

PID = 3.5

5'-7' Clay, dark gray, mottled brown, soft, slightly moist
PID = 60.1 TD at 15'

1650

sent to lab

ATHA = 3032.0! Not sampled
R = 90% for water only purpose
Drillers to Decon only 1730

Screen was set on punch hole

Assisted Mark w/coc at hotel room. 1800

Mark dropped off samples at FedEx.

The team will be going to Mart for supplies around 200hrs.

End of day 1930

No further action required

Chad Parker

Tues. 10-25-99

Forecast: upper 40's today, windy & breezy, west to east winds, cloudy & overcast

0700

Arrived on site

Steve to check with guard

on going onto & crossing apron

(LEE was calibrated)

PID was calibrated.

Steve advised FAA was not notified of us to go onto apron yesterday by the ~~best~~ Sgt. he coordinated with.

Tailgate & safety ~~briefing~~ briefing 0750

Will collect water samples from

04-007, 008, 009 PS this morn.

Moved to site & 0815

setup

(04-007PS - GW)

0845

Only able to get 3 vials

& 1/2 liter. Will return to ~~re~~ sample

0910

(04-008PS - GW)

Only able to fill 3 vials

will return

Randee Porter

2 v
m
vials
Randee Porter

No
entry
Return to Base

04-009PS-GW

Obtained 3 VOA's &

barely 1 liter of H₂O
These three holes run dry
pretty quick probably due to
hard clays, ~~on the~~

Jeff to check w/ CE

1000

it we have been cleaned
for probes South part of BASE
+ KC-33 TANKER to be moved
so we have to clear apron area +

Jeff advised CE will clear 1015

US + 1 ~~at~~ 1400, ^{unknown} ~~has~~ been busy.

Jeff advise we are down for
now cuz of this.

Will pickup items from hotel being 1030

Fax Fed'Ex'd from Lab for
Mark.

Picked up 5 ice chests &

##75

1 PID

Returned to BASE

1115

10-25-94

0930

(26)

(2)
10-25-94

Will run QA/QC on equip. 1210

Equip: 1) barrel

2) tubing

3) split spoon

4) portable (thru steamer)

5) ~~port~~ H₂O

Completed QA/QC 1315

Lunch 1330

Returned to base 1400

Will move to next
punch hole area & continue
across apron

Tailgate briefing 1430

cont. at 040010PS

04-010PS

0'-1'

clay,
Fill w/ roots, brn,

dry

no sample
sent

PIB = 0.5

ATHA = -

1'-3'

Clay, w/ roots, black,

dry, some sand

PIB = ~~474~~ 6.1 R = 40%

ATHA = 0.3

1505

No
entry
Further down

10-25-94

04-010PS (cont.)

3'-5' Clay, soft, slightly 1530

moist, ~~at~~ gray, not led brn

PID = 1.3 R = 60%

ATHA = 0.4

1.0' to lab

5'-7' Clay, ~~off~~ soft, black, 1545
w/ roots; hard, gray upper 4"

PID = 1.3

R = 100%

ATHA = 3.0 ^{moist}

8'-10' Clay, gray, ~~soft~~, soft, 1600
(WATER) no roots

PID = 1.8

R = 100%

ATHA = 3.0 3.6

Packs up ~~at~~ since don't have to de can

get water samples previous holes

04-007PS

~~1700~~

1700

GS → TOC = 3.0'

TOC → H₂O = 8.6'

TBC → bottom H₂O = 14.66

Completed H₂O samples for lab.

John R. Smith

No further work

04-009PS

GS \rightarrow TOC = 0.5'
TOC \rightarrow H₂O = 11.91'
TOC \rightarrow bottom H₂O = 14.72'

Only enuf H₂O
sample for DOA's & DRO
Security came by and
advised only 20 minutes more
allowed since KC-35 was to
be moved & we had to vacate
apron area.

Will continue tomorrow
Mark & I straightened out
VAA at hotel parking lot
Assisted Mark with COC
Dropped off samples at FedEx. 1800
Went to K-Mart to pick up
tape, baggies, & goggles for tomorrow 1845
End of day 2030

Robert Portella

Wed. 10-26-54

Force cast: 40s to 50 high, cloudy
 & partly sunny, light winds,
 easterly diversion.

0700

Arrived on site
 PID & LEL calibrated

Checked w/Security Command 0730

0815 Flight

0830 Flight

0840 Flight

as per Sgt. Larson. Steve advised
 him of our progress.

Steve thinks it'll probably be
 about 2 hrs before we may be able
 to get out to H₂O sample \approx 0930,
 since they have not been on time lately.

Jeff went to check if CE 0750

cleared other pts so we can go
 there

0820

Tailgate briefing
 Will ~~be~~ move onto East St.
 and punch holes along
 drainage ditch

Photo taken

Don't forget to
 take photos of
 the site

10-26-54

0840

04-020PS

0'-1' Fill, clay, hard, w/roots,
some pebbles, brya, dry
No sample PID = 1.0 R = 100%?
sent ATTH = -

1'-3' Clay, gray to brn little
dry, some gravel, sand
PID = 18.2 R = 100%

ATTH = 42.3

3'-5' 5'-7' Clay, soft gray, 0905
wet, some sand, ~~strong~~ strong gasoline odor
PID = 22.2 REC = 60%

ATTH = 780

Steve to get drillers after
decon.

Set up at new punch hole
Jeff advise change of
procedure: 1005

- 1) No the samples to lab, GC only
- 2) No P#
- 3) New will be done
- 4) Soil samples every 3" pt. to lab.
will need GC for others

R. B. Borkala

10 June 1954
10 June 1954
10 June 1954

04-019ps

1040

0-1'

no sample for lab

Fill, w/roots, some gravel, soft, brown to gray, clay lower 6"

PID = 0.3

ATHA =

1'-3'

non lab sampled

Clay, soft, sandy 1045
6", light gray, mottled orange, pet. odor
PID = 22.5
R = 100%

ATHA = 33.2

5'-7'

non lab sample

~~clay~~ wet, sand, pet. odor 1100

gray, no roots

PID = 2.0

ATHA = 0.3

Rec = 100%

04-021ps

1145

0'-1'

non sample lab

Fill, ~~clay~~ w/roots, some gravel dry, brn, hard

PID = 4.8

ATHA = ~~2.0~~

1'-3'

non sample lab

Clay, hard, some roots, dry 1150
black to gray

PID = 10.2

ATHA = 0.0

R = 100%

Rubén Cortáez

Rubén Cortáez
Mining

(01-02115 cont.) 10-26-99

5'-9' Sand, coars-grained, wet, 12%
10' sample light brn, fine-grained, gray
P10 = 1.1 R = 100%

ATHA = 0.00

Lunch

1240

Return to site

1335

04-028PS (SENDING TO LAB) 1400

0'-1' Fill, w/rocks, some pebbles,
no sample

P10 = 2.3

ATHA = —

1'-3' clay, dry, hard, some
unit NO

1410

clay, gravel, H brn to gray
P10 = 143.0 R = 100%

ATHA = 132.4

5'-9' sand, wet, gray to 1430

1' sent black, med. grained, STRONG petro odor
to lab
P10 = 1797 R = 80%

ATHA = 1725

Possible the wet sample
could be product,
unk for sure but strong
odor.

John Parker

No
John Parker

(34)

10-26-94

1520

04-027PS

0'-1' Fill, w/roots, dry, hard
No sample
Same little pebble
PID = 0.8

ATHA = -

1'-3' Clay, soft, w/roots, 15YS
brack, slightly moist.

No sample
10-26-94

PID = 0.0

ATHA = 0.3

R = ~~80%~~ 10%
Only enit sample
for GC.

~~1'-3' for test~~

5'-7' Sand, gray, moist,
1' for lab
w/ gravel, med-grain

PID = 0.0

R = 80%

ATHA = 0.0

make to next punch hole

1630

1655

04-023PS

0'-1' Fill, w/roots, brown,
w/rock

PID = 0.0

ATHA = -

R =

John Costello

John Costello

The
 Gentry
 Corridor

(04-02375 cont.)

1'-3' clay, dry, some roots, 1700
 some rock, brown

1.5' to lab
 PID = 3.1
 ATHA = 0.0
 R = 100%

3"-5' Sand, coarse-grd, 1710
 slightly moist, brown
 1.5' to lab
 PID = 1.2
 ATHA = 0.0
 R = 50%
 (MS/MSO thd)

5'-7' Sand, clay & med-grd, 1730
 wet, some gravel
 1.5' to lab
 PID = 0.0
 ATHA = 0.0

Assisted Mark w/COC 1800
 back at pithead. Work
 stopped off to Expo Ex.
 End of day 1900
 R = 100%

John Port Allen

66

Thurs. 10-27-94

Forecast: 35° to warm up to 63,
breezy, 15-25 mph wind, easterly,
cold.

Arrived on site

0700

PID/LEC calibrated

Obtained ice for samples

0720

Tested to speak w/ HGA PM

GA

Palgato briefing

0750

1) 5 MW

2) soil sampler on before

3) H₂O sample for GC only ~~from~~ on holes

4) PZ back on w/ H₂O sample

Therefore, 04-0019PP & 020PS have
to be resampled since only GC sample
was obtained.

move to 04-009PS

0800

04-019PS (SENDING TO LAB)

0825

0'-1'

Fill, clay, w/ roots,

No sample

Soft, dry, brown to gray, mottled orange

PID = 1.6

ATTA = -

1'-3'

Clay, soft, some roots,

dry, brown to gray, pet. odor

PID = 13.2

R = 100%

ATTA =

Paul Portalan

0830

3'-5'

No Recovery
(for Duplicate)

OBfs
R = 0

5'-7'

~~clay~~, wet, petro. odor.

sand 1.6
1.5

dark gray

PID = 1.6

R = 100%

ATHA = 0.5

Drillers to decon

0915

04-021PS (SENDING TO LAB)

0950

0'-1'

Fill, w/rocks, brown, clay 1/2 6"

no lab sample

w/ gravel, brn, dry

PID = 1.5 ATHA = -

1'-3'

Clay, ^{hard} brn to gray, some

1000

1.5' to lab

pebbles, dry, some sand,

PID = 0.0

ATHA = 0.0

R = 100

3'-5' (DUPLICATE)

No Recovery

1015

For Dup

PID = -

ATHA = -

R = 0%

5'-7'

Sand, ~~gr~~ cg, brown, wet, some roots

1030

PID = 0.0

ATHA = 0.0

R = 100%

Drillers to decon

Jeff wants to H₂O sample for GC (Mark's)

on punch holes we did yesterday & today

Rube
Portada

No Entry
Rube Portada

10-27-91

1130

Obtained Water Sample for

Split Spoon (Equip. blank)

Drillers advised hydraulic line leaked
on Strataprobe - they will repair -
approx 1-2 hrs down time

Obtained GC H₂O sample 1200

for: 04-~~021PS~~^{023PS}, 019PS, 027PS, 028PS,

& 023PS.

Lunch

1345

1400

Return to site

Drillers able to get their

repairs, ok to resume

will obtain ~~the 021PS~~ sample

1445

from 04-021PS after drillers

able to ~~clear~~ re-punch it next to it.

Bill Hadbury returned on 10-25, &

he went back home this afternoon.

He said he may return next week for

the MW but it is Ruth's L. call.

Drillers will place screen to collect 1505

water but new hole has collapsed again.

Went down few feet w/ screen. will

leave it & see if ~~gas~~ can get H₂O.

Rubber Portals

No Activity
When Drilled

104-022PS

0'-1' Fill, w/roots, gravelly, 1555
No Sample brn
PID = 0.0
ATHA = —

1'-3' Sand, clay some clay, gravelly, 1600
1' x 6' dry, poorly sorted, lt brn
PID = 0.0 R = 60%
ATHA = 0.0

5'-7' sand, clayey, wet, lt 1615
1' x 6' brown some pebbles
PID = 0.0 R = 60%
ATHA = 0.0

104-026PS

0'-1' Fill, clay, w/roots, some 1650
No Sample gravel, dry, black
PID = 0.0
ATHA = —

1'-3' Clay, w/roots, rock frags, 1700
0.5' x 1' dry, black
PID = 0.0 R = 20%
ATHA = —

5'-7' clay, fg, slightly moist, 1715
1' x 6' lt gray, soft, little roots
PID = 0.0 R = 80%
ATHA = 0.0

2.1 in Port

No
first
Bar
D
C
R

35
10-27-74
1800

Observed de-con.
Will assist Mark w/coc
back at hotel
Returned to hotel

1845

Organized van
Prepared COC's
dropped off samples at
FedEx

1930

End of day

2000

~~218 mly
Rubin Galt~~

Rubin Galt

43-82-01 F/A

Forecast: 40's to low 60's, mostly cloudy, breezy - easterly dir.

Arrive at site 0700
prep for today
obtained ice

104-004922

0'-1' Clay, dry, some rock frags,
soft upper 6", black
N. lab sample
P10 = 6.3.0
ATHA = -

1'-3' Clay, some roots, weak 0830
frags, angular, dry, black
1.5' to 1.6' P10 = 34.1 R = 100%
ATHA = 0.0

5'-7' Clay, slightly moist, fine- 0850
grained, black to gray
1' to 1.6' P10 = 26.1 R = 70%
ATHA = 0.0

~~10'-11'~~ Cap to push rod west 0920
too tightened, so drillers had
to buy new wrenches, teeth on
their old ones to old worn to grip.
Rig down approx 1/2 hr
Paul Bateman

4% Early
Quartz Crystals

(04-004PZ cont) 10-28-94
8'-10' Sand, med-grnd to fine 1000
1' to lab grnd, WET, dark gray
PID = 0.7 R = 70%

ATHA = 0.0
PZ screen set to bottom of 10' 1015

Hole TDQ16'

drillers to decay

04-025PS

0'-1' Fill, w/roots, top 6"

No lab sample

w/gravel; clay, w/pebbles, dry
PID = 0.0

ATHA = -

1'-3'

Sand some clay,

1' to lab

w/gravel, angular, brn, dry
R = 60%

PID = 0.0

ATHA = 0.0

3'-5' Dup

Clay, dk greenish-gray, 1130

1' to lab

Soft, slightly moist

PID = 0.0 R = 60%

ATHA = 0.0

5'-7'

Clay, sandy, w/gravel, poorly 1155

1' to lab

sorted, angular, soft, dry, black

PID = 0.0 R = 50%

ATHA = 0.0

TDQ18'

Andy Carter

No
Drilling
Culm Contain

10-28-94 1215

Drillers had to drill down to 18' to reach water.
Screen set for GCH₂O sample, but seems hole collapsed.

1230

Drillers to re-punch hole since not able to plug hole & will get sample from 10'-12' - seems water around that interval.

1247

~~10'-12'~~ 10'-12'

10'-12' clay, hard, dry, w/ some pebbles, ~~gray~~ sub-angular, gray
P10 = 0.0 R = 80%
ATPA = 0.0

1315

Drillers not able to get to water table - they are trying to break down then previous hole.

1325

Hole collapsed again - not able to set screen -

1330

lunch break

1430

Return to site

prep for next hole

1500

Drillers getting their equip. ready

Rubén Orellana

04-029PS

0'-1' Fill, w/roots, dry, some
rock; Clay, sandy, lwr 6" brn, dry
PID = 0.0
ATHA = -
1'-5' Sand, med coarse grnd, dry, 1530
1.5 to 1' brn; clay, lwr 6" brn, hard, dry
PID = 0.0 R = 10
ATHA = 1.6
5'-7' Clay, ~~stagnant~~ hard, mottled 1545
orange, fine grnd, brn, dry
PID = 0.6 R = 100%
ATHA = 0.8

Possible water close to 7', some moisture
in spec.

PVC screen set

04-030PS

0'-1' Fill, w/roots, dry, brn; clay,
lwr 3" dry, soft, brn
PID = 2.3
ATHA = -
1'-3' Clay, sandy, med grnd, 1655
1.5 to 1' brn, ~~stagnant~~ wet
PID = 1.3 R = 100%
ATHA = 1.7

Jeffrey

No m. Fry
Cauling Center

(04-030PS cont.)

10-23-74

5'-7' Clay, sandy, some pebbles, 1710

1.5' to 1.0' Wet, Lt brn

P/D = 2.6 R = 100%

ATHA = 3.8

Drillers to decon 1730

Will try to punch (2)
tomorrow depending if cut
method for drillers

Assisted Mark w/cocci 1800

Dropped off at FedEx #20

End of day 1900

End of day
Gulien

Gulien

547. 10024-94

Forecast: breezy, mostly dir, cloudy,
mid 50's for high.

Arrive at Site. Tailgate brrg 0700
Steve had muscle spasm & will join
us later today.

Checked w/ Security Police, 0715
they had 1 flight at 1045 today

Prep to go onto H₂O sample 0730
~~Off~~ across apron

Drillers mixing cement to plug
holes 0750

[04-008PS-GW]

Obtained H₂O sample
for GC 0815

[04-010PS-GW]

Obtained H₂O sample
for GC 0840

Bryon has trouble with
leg of strata probe - cannot
pull punch hole for now
Craig advised rod broke off
of strata probe leg. It has
to be welded on. He will
check if it can be welded on
today by someone - unk if open
welders today. Will check. 0900

0945

Wash try
Clean Drill

Phil Portillo

Water Sampled 04-030PS-6W 1000

for GC.

Not able to get H₂O sample from 04-029PS-6W. It seems clay too dense for water permeation.

Decomed bailer

H₂O ~~water~~ sampled 04-021PS-6W 1030 for GC

decomed bailer

Not able to obtain H₂O sample 1055

from 04-022PS-6W. Seen

There was moisture outside of bailer but not even a drop of water from bailer came out.

Still waiting on drillers see if they found a welder or not.

Drillers returned & got 1115

their weld. They will put the strapgale together

Lunch

1130

Return to site

1200

Drillers decon

1215

Ruben Carstensen

No Entry
Ruben Carstensen

10-27-94

04-038PS

1230

0'-1' Asphalt, 6" fill, gravel

None to
lab

dry, ~~light~~ white

PID = 0.0

ATHA = -

1'-3'

Clay, sandy upper 6", brn, dry;
clay soft, mottled orange, dry

1.5 to
1.90

PID = 0.0 R = 100%

ATHA = 0.0

5'-7'

Sand, slightly moist, eg, 1300
w/rock frag, angular, lt brn.

1.80 to
1.95

PID = 0.0 R = 50%

ATHA = 0.0

10'-12'

Clay, wet, brn,
lower 6" sandy

1.5 to
1.90

PID = 0.0

ATHA = 0.0

R = 70%

GC had sampled 04-038PS-GW

Drillers to decon

1350

Prep for next punch hole

1405

04-035PS

1420

0'-1'

Fill, ~~very~~ clay w/ roots, soft,

No sample

fg, dark gray

PID = 0.0

ATHA = -

Laber Postle

No entry
Further work

45-52-07

Clay, semi-hard, mottled 1430

orange, gray, sandy lwr 6", moist

$$p_0 = 0.0 \quad p = 100$$
$$ATHA = 0.0$$

$H/H_A = 0.0$
 Sand, wet, $\frac{mg}{g}, \frac{mg}{g}, \frac{mg}{g}$

15.7

2019

$p_{10} = 0.0$ $p = 40\%$

$$AT1+A = 0.2$$

H₂O sample to GC

Drillers to decon

0051

Assisted Mark w/ CDC

1530

Dropped off samples @ Fed. Ex

1630

~~Completed~~ End of Day

1700

Will return to SA, TX

tomorrow. Will give log
book to Jeff to have

next geologist continue log.

Will also handle 1988 log of

boring report from C. F. Huelsmann
to T. H.

Will have Mark handover Water

Resources" materials on loan from

Let. Wheelman to him.

Robert R. Taylor

26
Cuthbert
Cuthbert

NO ENTRY
Quarry Pond

413
10/31/94
(24-004 PZ) 3" i.o.p. to 6L
9.10 water depth
13.60 to pond
15 foot total 08200
P.I.O. reading 22.7 (background)
no response in pipe (1)
All
(34-003 PZ) 10-1' silt-
dark, some brown (2.54 3/3)
large fishlike ~~fish~~ abundant
sinter - several chips Terrestrial
1-3' contact - top and above, on 0-1
(1.0.0) plastic clay. Blue (5/4/1)
Sampled down, organic
3-5' (P10 653) duplicate sample
organic residue
5-7' gray organic, silty la
st. plastic - organic color
on 5/4/1 9:45
14-16 silty color P1033 P.I.O.
sampled as above
dark gray (5/4/1) silty brown
red plastic
Quarry Pond

NO
E057R4

to Andrews Rowing

~~Expensive~~

at 1500 ft level sandstone
0-1 Black to dark gray topsoil
Clayey siltstone

1-3 Topsoil on shore at top (Below)
Clayey silt, dense, plastic
red topsoil yellowish brown

5-7 dense, brown, moving
Olive, silty clay plastic
NO P10

10-12 25' of blue brown (2.5/5/3)
clay - plastic & dense
NO P10

54-007 P7

0-3" - 1' - 15 p.p.m. of black at top
8" - 1' - 15 p.p.m. (7.5/4/1)

siltstone, coherent, dense
clayey roots, angular
clayey dense, silty clay
dense 30-35" - 1' p.p.

1-3

sampled - FID = 0

BR ~~25-7~~ 25-7, big problem - off to water
dark gray (54/4/1)

silty clay, dense, moving
roots

Andrews Rowing

10/17/94

~~David Lusk~~

Andrew Rany

04-003PZ 13-16 P.D.

across ditch to west near Sand N40
area contains carbon drilled.

Measurements 41.30 G below TOP

15' of pipe in 16 ft hole

7 ft to head ground - removed with rod
to 15' - screen still sticks at 7' - put on
longer screen - still sticks below 7' but
upside to mud and clay in with water

04-015PS 10-01 0-1 ft P.D. = 0

6" dark brown topsoil

6"-10" mottled olive & yellow silty clay

1'-3'

10-12" clay, olive, dense, plastic

3-5'

Sampled clay, olive, plastic ^{18.7} on sample

gray, clayey sand, silty cohesive

big color - big P.D. thin fraction

on west ditch bank north of 003PZ

penelope 100 feet - water at 0 2.9 top

71400 P.D. on penelope sample

04-014PS by Williams & Pierre Table East side

of ditch south of Torreyway

0-2" top soil, black clay brown

2"-8" brown, mottled brown fill, pebbles

1-3' olive brown (2.5" 4/3) clayey silt blocky, plastic

Sampled - contact near 3' ft into pure clay

(49)

11/1/94

04-014-PZ

3.5 NOT SAMPLED

5-7 NO RECOVERY - ^{unusually} _{low}

Mid. yellowish-brown Silt, clayey

7-9 ft dark gray brown, clayey silt -

not plastic

ARC

after lunch 04-012-PS on grass north of

taxi way. West of ditch.

0-3" Topsoil, dark brown, rootz.

3-4" Brown (7.5% R 5/3) clayey silt

mottled patchwork (fill)

1-3 ft brown - well compacted fill

2 brown mixed fill with pebbles, mottled

3-5 No sample

5-7 fill, dense, clay 1/3 recovery sampled

most dk brown, clayey silt with pebbles

while working on 04-012PS it was

misidentified as 04-013 - Project manager

caught problem. labels changed.

04-011PS

3:00 PM West of runway

East of ditch - toward north

0-1 ft mixed dark brown topsoil & med

yellowish brown silty clay, note

NO PID. Very dark brown (10YR 2.5/2)

To dark yel-brown (10YR 4/4)

Andrew Roring

NO
ENTRY

Random Rung

11/1/94

04-011 PS 1-3 ft Sampled 2.4 ppm PID
04-011 PS 5-7 ft Sampled 2.8 ppm PID
~~dark~~ light olive brown (2.54 5/5)

clayey silt. very dense & firm,
bored to 11.5 for water. put well pipe in
no water - soil too tight. left pipe top.

04-D13 PS - 1620 - Sweeney Paris way
& ~~base~~ ^{base} pairing

0-1 ft top 8" is dark brown top soil
or sandy clay brown - roots

1-3 ft sampled dense clayey
silt mottled dark brown to
yellow brown - FILL well compacted

5-7 ft dark brown clayey sandy silt
PID 2.9 dry and well compacted 1650 dwt
took hole to 10 ft and took water
sample for GC - PID battery died.
No odor in this hole - new fill?

Wednesday 11/2/94

04-018 PS 0-1 ft PID = 1.3
1" top soil 2-10" light brown sand
poorly sorted with pebbles - fill

1-3 ft Top was @ 1 ft of fill pebbly
sand, as above - only 2" recover
below ~~top~~ ^{AR} was olive clay, dense
and coherent - plastic Andrew Rung

(51)

11/2/94

04-010 PS 5-7 ft greenish olive clayey, silty, fine sand. Damp, cohesive. distinct gas odor. water at 5.1 BGL duplicate of free product on sample. Brimen with Target reports same at PZ3. big problem, showed bottle on self separated

9:15 04-016 PS

0-1 ft topsoil above Pol-Olin (SP6/3)
1-3 ft Dark grayish brown (10YR 4/2) Sand, silty. Crumbly & dense clumps. PID elevated

no odor -

5-7 ft no recovery - wet. loose sand.

1005 04-017 PS in pavement

cut hole. 0-1 ft rock & black soil
1-3 ft dark gray (5Y4/1) orange clay
dense clay at base - above was sand

lost during spoon extraction. inadequate sample

3-5 grayish brown (2.5Y 5/2)

clayey silt, dense, crumbly. Sampled

5-7 ft No recovery (Sand?) wet

1135 04-004 PS NE corner North of ground line

0-1 ft light brown to mid yellow brown

fill dirt - sandy, with stone

Andrew Raving

20 ft
Damp
important

04-004 PS (cont.)

Met at @ 2.5 ft
punch to 4 feet for water sample
after lunch PID water. 2nd PID hole
better problem - move to 04-024PS

at ditch SE corner of Gasoline #575
(~~AS with 1/2 gal of water~~ ^{Top} ~~Dark brown silty clay loam (Soil)~~)

0-1 ft

Dark brown silty clay loam (Soil)

1440

04-031PS near picnic table, center of lot

(Punch 04-004)

1-3 ~~ft~~ ^{up} Dark brown silt loam, with

PID = 12.8 ppm

pebbles - fill Sampled No. 10

3-5

dark brown silt & lt. yellow-brown dense

plastic clay - water v. slow

to enter hole

04-031PS

0-1

2.1 ppm PID in hole / 5.9 in sample spoon

0-3" topsoil dark brown, roots

3-7" med. yellowish brown silty sand, loose

7-12 dark brown silty clay with pebbles - fill

1-3 ft

3.2 ppm PID in hole / 9.7 in spoon

~~2 ft~~

dark olive (SV 2.5/3) clayey silt

massive & dense. Sample (full)

5-7 ft

not enough recovery 2 sleeves

lt. olive brown (2.5/5/3) clayey sand.

only 1 G-RO no other data. Got water

Andrews Ravine

left BLANK

Andrews Ravine

NO ENTRY

Andrew Raining

(53)
11/2/94

04-032PS

0-1 ft Dark greenish black topsoil
clayey silt. mottled, non pebbles - fill
1-3 ft firm, dense clayey silt
PID=13.4 dark olive light olive brown (2.5% R53)
5-7 no recovery, in water - (Sand?)
to water 8.2' from T.O.P.

2.6' Pipe above GL

∴ water in S.G. Below GL

04-033PS

11/3/94

SE corner of plane pad at road intersect.

0-1 ft 7" recovery - topsoil, black 4"
O=P10 3" of md. yel.-brown clayey silt, sand
O=P10 in hole with pebbles

1-3 md yel.-brown, silty-clay - topsoil
in top few inches - mixed textures
(Pill?) Sampled.

3-5 ft yellowish olive, clayey sand
PID=0.2 sl plastic - mixed with sand.

No odor - No PID Sampled 7.25

5-7 ft No recovery.

water 5.1 ft below GL - Sampled 7.66

04-034PS

D-1 ft in front of admin Hdy in Street
Pavement base Sand & pebbles, lt brown
1-3 ft dense olive clay - Sampled; PID=0

John P. Raining

No ENTRY
Groundwater Raining
left blank

04-034 PS

PID=0

3-5 ft

dense olive clay. MS/MSD samples

5-7 ft

sand catcher - full recovery, damp
clayey sand, yellowish olive brown
cohesive, not plastic (10YR5/6)

water at 6.3 B.G.L. water for GC

9:30

04-037 PS

top soil

0-1 ft

dark brown 10YR3/3 silt brown
SAMPLE 1

1-3 ft

silty clay, dense NO PID
10YR5/4

5-7 ft

coarse sand, lt. yellow (2.5YR6/3)
poorly sorted, with silt. SAMPLED

water 5.15 B.G.L. No odor No PID

10:18

04-036 PS 0-1 ft → mottled

olive to dark brown, clay, silty. with silt
brown topsoil above, water. dense & plastic

1-3 ft

WET dense clay as above

PID=0.1

silty clay at base - SAMPLED

0-1 ft pumping color = gray (5Y6/1)

water level = 3.04 B.G.L. Sampled for GC

11:30 to Sample 04-001 PZ

purged once. work plan changed says Mark

7.9 to GW from T.O.P. (top of Pipe)

6.7 B.G.L.

Took all samples

lunch - need to resample BOR soil

from 10/83 due to bad screw up.

11/13

04-020 PS. Nido DRAQ (AR)

1-3 ft & 5-7 ft 13, 25

04-023 PS 1-3, 3-5 m/s/mSD, 5-7

sampled for DRO

04-027 PS (1440) sampled 1-3 & 5-7

1-3' also for G-RO

04-028

1-3' silty clay, dark gray
[1510] to 2' 8" 2' 8" to 3' 6" silty gray

sand reefing with gasoline odor
5-7 interbedded coarse sand and plastic

clay - at about 6' there is
an inch of black stained sand (gasoline)
above 4 or 5 inches of pure clay - sand
below clay is not particularly odorous,
or discolored.

3:40 to 04-002 PZ for sampling
for side of ditch; North side

Got everything but adequate PAF
4:22 to 04-003 PZ South on W of ditch

for VOA only - bailed dry at installation
plugged with sediment at about 8 ft
strong odor - No film seen

(AR)

(AR)

Andrew Raring

Left blank

Andrew Raring

Running 11/4/94

SW Corner of north 40.

04-001MW

0-1 ft 1/2 gravel 2/4/5/6

2-4 Sample clay a inch

olive brown plastic, dense

4-6 some olive clay luster

black mottles Sandy clay

Howard base with thin clayey sand

No GC sample 4-6'

6.5-TD. just below 6ft est 7ft -

very sand cuttings, light

grayish brown. water sat. 6 ft

after 2-4 sampled, Jeff cancelled further

sleeve sampling, per Work plan - will take only

a GC for Mark and PID in Spoon cap.

TD = 18' 3" (Total Depth) in light plastic

15' - Sieve sample for Grain size analysis A

from cuttings grad "loam silt" in

challenge terms - clayey sand (or s/s)

04-004MW south of clinic

0-1 brown silt loam top soil.

A) 1-3 Spoon 3/5/5/6 lt olive gray

(5Y 6/2) silty clay, no vis. struct

B) 3-5 ft 3/3/6/8 interbedded sandy clay

and clayey, coarse sand. in upper

4' - brown (10YR 5/4) No odor

AR

04-0041 MW

(51)

11/4/94

5-7 ft (4/6/8/11: blow counts)

all sand, coarse at base

dark yellowish brown (10YR 4/6)

D) 10-12 ft

(2/4/6/9) dark gray

(5Y 4/1) sand, coarse at base with

many black mineral grains, slightly

in part. Flaring up auger around

center plug bit. drilled to 20 ft.

center bit temp. stuck - feed & moved slowly

Called John late AM with Jeff - Ruth

had wanted GW level map first. We

didn't have elevations survey data back

plus - GW depth in static probe holes were

variable, ranging from 2.5 to 7.5 below

surface. clay/sand shallow at means

local water level - high if sand present,

low otherwise. Called Ruth - explained.

She (and John) thought MW-2 should be

runned N - we did that. Jeff faxed Ruth

or revised MW loc. map. Had faxed John the

1st version - later, same engineers reported

that there was 5 ft difference in water levels

beneath opposite corners of new hanger.

Confirms notion of usefulness of shallow levels

for regional water table determination

Madame Roving

DRILLING CONTRACTOR

CSI

Environmental, Inc.

414-857-6772

Rig = Ditch 50 (D-50)

Driller: TIM CELICHOWSKI

414

351-8020: Milwaukee Office

fax 351-8025

04-004 MW after lunch - supplies have arrived.
Re: work plan Re: Fish on above ground comp.
and talked with Captain of Fore Engineering.
Site prefers all 1/2" x 1/2" x 1/2" well.
at well - near & casing to 17' BGL
(BGL = below ground level)

sand to 50ft 5-17 coarse of sand
with 1 bag of fine sand above
screen (screen: 7 to 17 ft)

1.8 ft of Bentonite slurry.

04-001 MW Completion Start 1455

bottom at 17.7 lifting augers pulling pipe -
bridged at base. 1st flight off - pipe free
full to 19 ft add sand to raise to 17 ft

7-NDV-94

04-005 MW

2/4/4/6 1-3
3/3/7/9 3-5

Cloudy, cold, hi 50s

Driller: Tim

CELICHOWSKI,

w/OSI ENV, Inc

1-3 R=75

0-15" Clay, dry, brown

15"-16" Clay w/sand, brown, dry

3-5 R=80

0-3" clay, dry, brown, some silt

3-6" sandy w/clay, coarse, gray

6"-16" Clay, dry, brown

5-7 3/5/8/12

R=95

Clay, brown, dry to slightly
moist. Large ~~1-12~~ 1-3 cm
gravel pieces.

No Contam

P. M.

10-12 8/3/6/10

R=100

Same as above

Well completed as MW

big stack in mud

04-002 MW

1035 Began prep for drilling
04-002 MW

1-3' 4/6/4/8

R=75

PID=0.8

2-12" Clay, w/silt, sand (fine \rightarrow med) &
gravel (1-3 cm), dark brown & light

6-2" Topsoil, lean fill

5-7' 2/1/2/3 R=45

Clay, very plastic, gray-green
Some fine sand (>30%)

10-12' 1/2/2/6 R=80

clay w/sand (>30%) gray, wet
some gravel pieces (1-2cm)

Well Completed { 16-10' screen
17-8 sand w/
fine on
top 6"
all previous } 8-4 slurry

04-003 MW

1-3' 2/3/5/7

R=50

PID=0.0

Clay & silt, some fine \rightarrow med
(30-50%) sand, gray to black, dry

6 in some 1" intervals

5-7' 2/4/2/4

R=50

PID=0.3

clay, strong hydro odor,
green-gray, some slit & sand
slightly moist

10-12 5/6/7/9 R=75
PID=1950

10-12' Coarse sand & gravel (~1mm)
wet, dark gray (~80-90%
sand), strong hydro smell.

Well Completed

~~2-4~~ 6-16' BVS screen
2-4 BVS slurry
4-17 Sand

Ambient PIDS *

04-003 MW 1-3 = 0.0
5-7 = 3.8
10-12 = 537.0

END OF DAY

A. Z. M.

8 NOV 94

0600 Arrive at site, cloudy, cold
high in low 50s

0630
04-001 MW - Purged & Sampled
TOC → water = 7.01'

0730
04-004 MW - Purged & Sampled
TOC → water = 7.52'

0915
04-003 MW - Well Developed

TOC → water = 5.64'
- 6 gals removed -
- well smilled bad!
- free product visible

PID at well entrance = 183

1045
04-005 MW

TOC → water = 17.24'

TD = 20.5'

04-002 MW - Well Development

TOC \rightarrow int = 8.20

PID = 0.0

Removed 6 gals

1415

Cleaned out van to start shipping out supplies.

END OF DAY

A. K. M

9 NOV 94

0600 Arrived at site

Weather: cloudy, rain, cold
hi expected 46°F

0645

Collected QA/QA Samples:

- one equipment blank
- not enough sample bottles for a field blank, ~~blank~~ a field dup will be collected instead because more important sample.

04-005 MW

P10 of well = 4.1 ppm
at time of opening

TOC \rightarrow water = 16.31'

VOL	pH	TEMP	COND
1 gal	6.91	53.6	8.13 x 100
2 gal	7.36	53.4	9.00 x 100
3 gal	7.20	53.8	9.02 x 100
4 gal	7.42	53.2	9.03 x 100

04-003 MW

PID in well at time of opening cap = 1081.0 ppm
 TOC \rightarrow wat = 5.66'

VOL	TEMP	pH	COND	X100
1 gal	52	7.04	12.67	12.67
2 gal	52.4	7.06	12.66	X100
3 gal	52.6	7.06	12.65	X100
4 gal	52.3	7.09	12.68	X100

6 gals removed from well

Breathing zone PID up to 20 ppm
 - strong odors in well area
 - Env. sample collected
 - Dup sample collected

1015

04-002 MW

PID at opening of cap = 0.5 ppm
 TOC \rightarrow wat = 8.14'

VOL	TEMP	pH	COND	X100
1 gal	53.7	7.13	13.31	
2 gal	53.8	7.10	13.37	
3 gal	53.8	7.08	13.39	
4 gal	53.5	7.06	13.35	

- 6 gals removed
 - env. sample collected

04-005 MW

1100

TOC \rightarrow wat = 17.77'
 PID at opening = 12.5

- env sample collected

1130

Feeling nausea & headache
 from 1000 to present
 time.

1130 Lunch

1200 Return to site, began
to box up Supplies
for Fed Ex & Freight
shipment

1500

Returned to Hotel

1530

Took Mark to Airport

1600

Return to site, discussed
drums, etc with Jeff

1620

Return to Hotel

END OF DAY

A. Khan

W. Khan
10/1/02

10 NOV 94

0530 Met Jeff, breakfast and discussed day plan.

Realized that Harco failed to send the Hermit Data Logger manual.

0630 Return to hotel call Harco. Answering service took message.

0800 Harco returned call and will fax parts of manual.

0900 Receive part of fax.

Call In-Situ to get help on programming

logger. Tell Ruth about illness yesterday at 0400Z. Jeff informed me of Johns desire for me to return to Seattle.

1000

no
outgoing
11/11/94

1215 Arrive at Milwaukee
airport to return to
S.A.

W. J. Sullivan

W. J. Sullivan

Health & Safety Briefing

- Today's Task

- Required PPE - ear prot along flight line

- Potential Hazards

- physical (kill switches)
- exposure

- Today's Weather

- Today's Evacuation Plan

- Site Safety Equipment/
Nearest Hospital

- Special Topics - red line on apron
- 911 (cellular) in brief case (black)
- FOD

$$\begin{aligned}
 \text{Well Vol} &= (0.0408) \left(\frac{3}{4} \right)^2 \times (Ft. H_2O) \\
 &= (0.0408) (0.5625) \times (Ft. H_2O) \\
 &= (0.2295) (Ft. H_2O)
 \end{aligned}$$

Specific Cond: ± 10 mmhos

pH: ± 0.1

Temp: $0.5^\circ C$

Field Blank

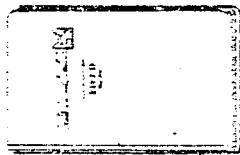
only after 48 hrs (new event)

Subst: fute for some equipment
(blanks)

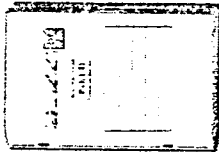
"Give the Name"
ALL-WEATHER WRITING PAPER

Outdoor writing products...

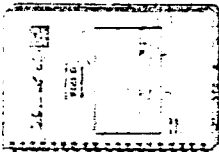
... for outdoor writing people.



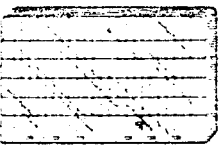
HARD BOOKS



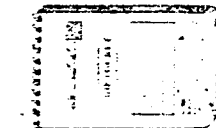
NOTEBOOKS



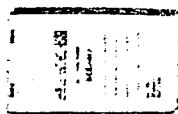
SPIRAL NOTEBOOKS



LOOSE LEAF SHEETS



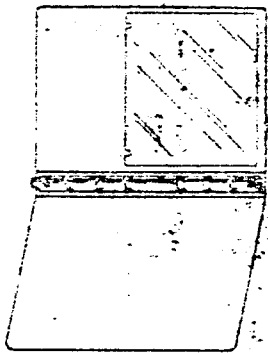
SPIRALS



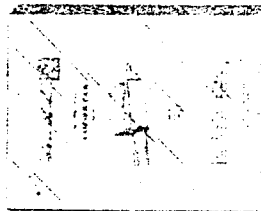
HARD BOOKS



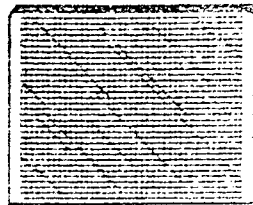
ALL-WEATHER PEN



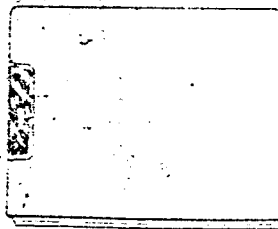
RING BINDERS



COUCH-BINDERS



GRID SHEETS



POLY-CLIPBOARDS

Field data... it's worth collecting, it's worth protecting.

BY
JAMES M. HARRIS
JANUARY 1900

LENGTH	
inches	2.540
feet	30.480
yards	0.914
miles	1.609
meters	0.939
centimeters	0.039
meters	3.280
feet	1.093
yards	0.621
miles	0.621
centimeters	
meters	
kilometers	
inches	
feet	
yards	
miles	

WEIGHT	
ounces	28.350
grams	0.453
pounds	0.035
kilograms	2.204

[illegible]

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0106	31735
0136	47625
0108	63500
0260	79350

0417	95250
0417	12700
0631	15075
0625	19050
0120	22225

0633	25.400
1667	50.800
2500	76.200
3333	101.60
4167	127.00

5000	152.60
5633	177.60
6667	204.20
7500	228.60
8333	254.00
9167	279.40
10000	304.80

Steve Wilson

Operational Technologies Corporation
Address: 4100 NW Loop 410, Suite 230
San Antonio, TX 78229

731-0000 (210)

Gen Bally Mitchell Field ANG-3
MILWAUKEE, WI

D.O. #12/1315-139
Contract: DAHA 90-43-D-0005

MISCELLANEOUS INFO

Local WX: 936-1212

PAGE	REFERENCE	DATE
	Johnny Pagan: 1-800-719-6454	
	Jeff Pagan: 1-800-591-1354	

* Ask Mike Wasieleski about his manual
on chemistry (environmental) - a bit outdated,
but very straightforward + complete
* Need Standardized Rain Gear (incl pants!)

TRUCK: WHITE FORD VAN / ILLINOIS 2818 JR
CAR: Red Cutlaw Supreme S / Wisconsin JST 3888

Chloroplast (hth)

Cin: 85242

2m 71545

~~247-5200~~
Hertz - 747-5200
Budjet

327-1610

National: 483-9800

②

04 Oct 94

no candles
no candles

MONDAY, October 24, 1994 ③

WX: Mostly cloudy, breezy, & coolen
Chance of showers or lite snow
Hi: lower 50's (5:00 @ noon)
Winds ~~West~~ ^{Northeast} 15-25 mph
Coolen tomorrow, then warmer rest of
the week.

0700- Departed for AUG-B

0715- Tailgate Briefing

Attendees: Brian Niskey Jeff, Queen
Craig Hawkins Mark, + Steve

Subjects: V list items plus FOD hazard
(WX, PPE, hazards, Kill switches
Exposure hazards, safety equipment)

Concern: Cop escort near taxiway. I
suggest we get one @ test the 1st
time.

0755- Calibrated PID with Jeff.

NA8980204 - Serial No. of Microtip
AW

0810- Calibrated Combustible Gas & O₂ Meter
MSA model 261 Portable Alarm

HAZCO # 6553

0820- Moved to 04-DD18 w/ crew

LAST item

Grubbs 24 Oct 94

MONDAY, 24 OCT 94

0825 - Ambient background at

AW ~~PS~~ 04-00195 = 2.9 - 3.0 ppm. Can

smell aircraft exhaust from nearby

PID 0 + ~~PS~~^{AW} = 6.0 ppm - steady

Ambient now reading 4.5 ppm, so

Well = 1.5 ppm ^{AW}

0848 - Sampling of ~~PS~~ under way.

Ambient air = 2.3 ppm

Breeze is picking up. Est 10-15 mph

w/ gusts in 25 mph ^{AW} range.

0855 - Water from ~~PS~~ is barely flowing

from pump tubing into sample bottles.

~~PS~~ appears to be dry.

0900 - OPS complete at ~~PS~~ 001. Moving

to ~~PS~~ 005.

0910 - Truck stuck in mud on edge of

Baker's Pond. TEG Truck deep in mud.

0925 - Truck pulled out.

0930 - AT ~~PS~~ 005. PID = 0.0 ppm

0935 - Opened ~~PS~~ 005. PID = 0.0 ppm.

Rueben + Brian took H₂O level. H₂O is

2.4 ft BLS.

0938 - VDAs of H₂O taken via stainless

bailey. ~~LAST ITEM~~

Shahan 24 Oct 94

No samples
24 Oct 94

(6)

(7)

Monday, 24 Oct 94

- 1000 - Ops @ PS-005 complete.
 - 1006 - Mark & Craig departed to check out accessibility to PS-004 = There is construction around it.
 - 1015 - Stopped at CSC / SSJ + Webber. He called Command Post, who coordinated w/ Tower. We have permission to cross taxiway repeatedly. However, FOD is major problem. Taxiway just swept. Make sure we clean tires first.
 - 1020 - Returned to Decon/ Staging Area + briefed Mark, Rueben, + Craig. Brian is offsite cleaning tires of Rig. Jeff is offsite coordinating with utility companies.
 - 1055 - moved to PS-007
 - 1100 - Setup on site in progress.
PID of ambient air = 0.0 ppm
 - 1109 - PID of 1st spoon = 0.0 ppm
 - 1110 - Glitch w/ StratoProbe - problem w/ drive cap and/or connectivity
 - 1121 - PID of borehole after withdrawal of 2nd Spoon = 0.0 ppm
 - 1122 - PID of 2nd spoon = 0.0 ppm
- LAST ITEM —

Webber 24 Oct 94

NO GROUND
240000
240000

8

MONDAY 24 Oct 94

1143- PID of Spew @ 5'-7' BLS = 0.0 ppm
PID of borehole = 0.0 ppm.

1147- PID of Ambient headspace of
1-3 ft (PS-007) = 0.0 ppm

1159- PID of borehole @ 7'-9' BLS = 0.0 ppm

PID of spew = 0.0 ppm

1200- Wind has picked up considerably.

Very strong & gusty (est 20 mph +)

- Uncomfortable for crew (cold + wind)

NOTE: Recovery @ 7'-9' very poor. Have

decided to move drill rig slightly & rebit

(pwh) @ 5'-7' BLS only.

1217- PID of new borehole 5'-7' = 0.0 ppm

PID of spew (1 full tube only) = 0.0 ppm

NOTE: WX is overcast (broken) with

Very strong, gusty winds. Temp = 48°

Wind Ch. // = 20°F range!

2 thermometers read 100°C

1230- Began site breakdown

1306- Departed Down area for lunch

1410- Back onsite at PS-008

1425- Recalibrated PID w/ 75 ppm span

gas. Serial # 6553 (Hazeo)

1432- PID of surface - 1' = 2.1 ppm

Stewart 24 Oct 94

no GTRIS
Stewart
24 Oct 94

(14)

Monday, 24 Oct 94

(11)

1431 - PID of 1'-3' BLS = 3.8 ppm

1434 - Temp at work table = 46°F with 20-25 mph wind. Total overcast

NO PRECIP.

1436 - PID of 1'-3' spoon (opened) = 2.3 ppm

1440 - Amendment TO RECORD: AT

APPROX 1410, I held H&S mfg - DID NOT LOG.

ATTENDEES: CRAIG, BRIAN, JEFF, ROBERT,

MARK, & STEVE

SUBJECTS: COLD; Present tasks; PPE,

kill switches; Wind direction & eval plan;

location of safety equipment. Reminder on

Cold - get into truck & get warm!

Also noted Red Line around KC-135's.

Do not cross Red Line!

1443 - Spoon from PS-008 5'-7' BLS

Only have 6" recovery.

PID of back end of spoon = 4.1 ppm

1447 - Ambient air @ table = 0.9 ppm

1449 - PID of cap on 5'-7' BLS = 6.0 ppm

1452 - Temp has dropped to 42°F - Wind very

strong & gusty. IT'S COLD....

1456 - Ambient PID at table = 1.1 ppm

1503 - PID of 8'-10' = 13.3 ppm (cap)

Johnston 24 Oct 94

MONDAY, 24 Oct 94

- 1508 - PID of spoon upon opening (at sample skewer basket) = 4.0 ppm
Ambient Air = 1.3 ppm at table
1509 - LEL is still operating, ok behind rig (downwind)
1520 - off site - Drillers gone to down
1615 - moved to new site PS-009
1620 - Set-up. Ambient air = 0.0 ppm
1621 - PID at Spoon Surface to 1' = 0.0 ppm
1625 - Temp = 46°F - strong, gusty wind
Heavy overcast + dark. Cold
1628 - PID of spoon cap @ 1'-3' = 0.0 ppm
1639 - PID " " @ 3'-5' = 3.5 ppm
1640 - Temperature = 42°F - windy + cold.
1645 - PID of bore hole PS-009 = 0.0 ppm
1650 - PID of spoon cap @ 5'-7' = 60.1 ppm
1701 - ATHA of sample from 1'-3' from
PS-009 = 240 ppm
1714 - Drillers finished with PS-009
Note: Sunshine for 1st time. Temp = 40°F
1719 - ATHA on soil sample @ 5'-7',
= 3,032 ppm! PID recovered to 0.0
ppm
— LAST ITEM —

X/Ehler 24 Oct 94

MONDAY, 24 Oct 94

1720 - Dailed sawing from AS-009
Our crew packed up gear & secured
SITE

1730 - Departed PS-009 for Decon pad.

Note: Craig stopped at PS-009 + PS-008 +
He placed crimped Scott-Towel around pipe
in ground. Sprinkled bentonite powder on
top. If it rains, bentonite will be
hydrated + make seal. Reduces contamination.

1738 - Stopped @ Decon pad to watch diller
clear rig + parts. Our crew located +
removed supplies necessary for shipment to
lab.

1754 - Mark + Rubeen depart base for hotel
to work CoC + ice chest.

1800 - Decon water being pumped from
dum with bilge pump - into barrel at
Decon pad. Barrels secured w/ rds.

1610 - Departed base for Hotel

LAST ITEM

Dr Whelan 24 Oct 94

NO CRIMINALS
24 Oct 94

TUESDAY, 25 OCTOBER 1994 (17)

[WX:] Cold + Windy Today. High 44-45°
Overcast + gray. [WIND CHILL: 13-18°F]
Winds from W/NW @ 15-30 mph
Possible snow flurries or sprinkles.
Tomorrow - lighter winds; partly cloudy;
45-50 tomorrow. Forecasted 60° by

Friday

0715 - Stopped at Central Security Control
+ coordinated w/ Sgt Smith on operations.
FAA was concerned yesterday; Sgt Weber
apparently didn't notify them, despite our coordination
efforts. Sgt Smith called Command Post +
discussed. They will tell FAA.

+ New Hazard: Will be KC-135 departing this
A.M., plus 2 more tonight. I made
arrangements for the boundary patrol to notify us
prior to engine start, so that we can evacuate.
+ We have continued permission to cross
"November" ramp - Sgt Smith called all patrols
+ informed them. The Civilian dispatcher took
my business card + made notes.
+ We should be good to go today, Security-wise.

LAST ITEM

Sgt Weber 25 Oct 94

~~PHILIP
AN
GUTHRIE~~

(18)

no entries
allowed 25-Oct 94

TUESDAY, 25 OCTOBER 1994

(19)

0730 - Returned to Devon/Staying area & briefed the Optech team. Drillers are deconning pipe & getting gear together.
0745 - H+S Briefing

ATTENDEES: Brian, Craig, Mark, Jeff, Ruelen, & Steve

SUBJECTS: All ✓ items, plus hazard from KC-135 ops. WX is big hazard [I have extra down vest & lined field jacket]. Evac will be laterally (ditch restricts) Safety gear on back of white van. Drillers have fire extinguisher also. I have scanner to monitor NOAA WX.

0810 - Moved to 04-001PS to water sample.

0812 - Pidded PVC upon opening: 0.6 ppm

NOTE: AID is reading Ambient @ 5.2 ppm

0822 - Samples collected (VOCs)

Not much water in hole. Note: only one VDA vial filled. Determined that sampling was completed on this hole yesterday & resampling not needed.

0830 - Moved to 04-007PS

0836 - PID of hole upon opening: 0.0 ppm
Ambient Air by PID: 2.9 ppm

John Wilton 25 Oct 94

Tuesday, 25 Oct 94

0842- Sampling of 04-007PS begun.
Water samples taken. Ambient air on
PID = 3.7 ppm
Temp = 40° + breezy. Overcast.
0900- Security Policeman stopped by
04-008PS in truck. KC-135s will
be doing engine run-ups. Cannot go any
further. SSGT Warner is S.P.
0902- SSGT Warner returned with
update. Tail # 021 will be doing
pre-flight activity at 1030 hrs with
an 1100 sked departure. We must
terminate ops along ramp @ 1030,
for 45-minute period.
0905- Briefed whole crew.
0906- Setup at PS-008 to water
sample.
0908- PID det hole upon opening.
PID = 4.1 ppm (Ambient = 2.6 ppm)
= 1.5 ppm
Temp = 38°F - Very breezy.
0925- Completed sampling at PS-008.
Very little water in hole.

LAST 1 Rem

J Warner 25 Oct 94

No further sampling
J Warner 25 Oct 94

(22)

Tues. 25 Oct 94

(23)

0928 - Moved to 04-009PS. P.D.D.C.D

hole upon opening = 1.5 ppm

Ambient background = 3.5 ppm

1000 - Sampling complete. Packed gear & departed site.

1002 - Stopped Security Police boundary patrol (Sgt Warner) & notified him of Security ops. Returned to Decompnd.

1017 - Traveled to admin bldg (C.E).

1028 - WX: Cloudy; Breezy & cool

mid 30's - mid 40's today. ^{am}

Pale flurries - NW 10-25 mph winds.

(This is NOAA WX cast on RAD10)

162.40 MHz. - CH ~~87~~ 394 (Jaw)

1022 - Departed base for Hotel to pick up chests coming from lab. Stopped by

Decon pad & picked up Craig

1030 - Traveled to Hotel & picked up

coolers with sampling bottles

1050 - Stopped & picked up Hot chocolate & coffee for crew

1140 - Returned to base: Dispensary & dispensed hot chocolate & coffee

LAST ITEM

25 Oct 94

No entry
25 Oct 94
Annick

Wednesday, 25 Oct 94

(25)

- 1125 - Unlocked Cellphone (at last)
- 1140 - Unpacked ice chests & resorted new sample containers into pre-planned bags. Restored in coolers.
- 1145 - Departed CE to Decow Pad. Will be taking rinseate blanks (QA/QC samples on mission equipment).
- 1210 - Set up equip for QA/QC Samples (table, de-I H₂O, sample kits, etc.) Reminded all of PPE (esp. eye wear)
- 1213 - Sampling began - Jeff, Rueben, & Brian are involved. Took PICS.
- 1221 - WIND 320°/12 KTS (monitoring tower freq of 119.1. Temp is 48°F.
- 1301 - Sampling, continuing. Have sampled baiter, Split spoon sampler & taylor tube. Will now sample stem cleaner hose/pump assembly.
- 1312 - Sampling completed. Equipment breakdown completed & truck repacked.
- 1318 - Lunch Break
- 1400 - Back at Decow Pad w/ drillers
- 1420 - Rueben back w/ van

LAST Item
J. W. W. 25 Oct 94

No further work on
25 Oct 94

(26)

No entry
25 Oct 94

Tuesday, 25 Oct 94

(27)

1415 - H+S Briefing

Attendees: DuBois, Jett, Brin, Craig, + Steve

Subject: WX (Coldhead), Operations (drilling); exposure pathways; PPE; Kill switches; evac plan; sunset time; Safety equip locations; emergency comms

1428 - Crew left for PS-010 setup

I talked to MJ, + Armstrong in KC-135 maintenance hangar about securing power water @ 1630. Will be available from 0600 on. Will freeze if not kept in warm area tonight.

1440 - On site @ PS-010

1450 - Ambient air = 4.1 ppm on PID (occasional drops to 3.9 ppm)

Aircraft are operating on 250 runway

1457 - PID of Spool surface - 1' BLS = 0.5 ppm

1505 - PID of hole @ 3' = 6.4 ppm

1508 - " " Spool @ 1'-3' = 47.4 ppm

Ambient Air = 3.7 ppm

LEL - 0.6.

— LAST ITEM —

Signature 25 Oct 94

TUESDAY, 25 Oct 94

(29)

1512 - NOAA WX Broadcast:

Partly Cloudy \rightarrow Upper 40's

NW Winds 15-20 mph

NOTE: OUN TEMP VIA THERMOMETER = 44.0

1515 - PID of Spoon @ 1'-3' BLS =

6.6 ppm ^{reading} - 2.9 Ambient = 3.7 ppm

NOTE: Previous Spoon @ this depth did not

contain brass sleeves (driller error). Was moved
6" + re driven.

1522 - PID of hole @ 5' = 1.5 ppm

1526 - PID of Spoon 3'-5' = 5.6 ppm

Ambient Air = 2.8 ppm

Temperature = 42.0 F + breezy.

Total overcast + gray. Wind from NW.

1539 - PID of hole @ 5'-7' = 1.5 ppm

1540 - PID of Spoon @ 5'-7' =

4.4 ppm - 2.9 ppm = 1.3 ppm

1545 - Bill Hedberg arrived on site

I gave him HHS briefing on all V/it

items. He has all PPE. No gloves, tho.

1559 - PID of hole @ 10' = 1.8 ppm

1602 - PID of Spoon @ 10' = 2.5 ppm

Ambient Air = 2.4 ppm

———— LPT I Ten ————

Johnston 25 Oct 94

NO contacts 25-Oct-94

(30)

Franklin
25 Oct 94

Tuesday, 25 Oct 94

(31)

1620 - Finished drilling, 04-001DRS.

Screwed gear & packed truck.

1622 - I traveled to Decon pad to coordinate w/ base on securing power washer. Base has blocked down to permit securing of power washer. We can secure on our schedule.

1645 - Decon & wrapping of clean spool completed. Will go water sample now.

1656 - Moved to 04-002DRS

1700 - HHS Briefing

ATTENDEES: Brian, Craig, Jeff, Jim, Mark, & Rueben

Subjects: New location (tripping)

Splash hazard; cold; darkness & hurry; Decon; PPE & gloves

1705 - PDS hole upon opening = 0.6 ppm

1710 - Water level indicator lowered.

Has been disconnected. Fresh gloves used.

1716 - Sampling begins. Water is clear.

Ambient air = 2.3 ppm

1719 - Sampling finished - barely enough water

LAST ITEM

Franklin 25 Oct 94

no entries
for 25 Oct 94

1725 - Moved to 04-00 825

PDO of hole upon uncovering = 0.6 ppm
1745 - Security Police Ramp Patrol
Stopped by - engine start on KC-135
in 20 minutes. Decision made to
terminate ops.

1750 - Moved to Decon Pad to secure gear.
Twieken + Mark off to Hotel to complete
CoCs + prepare FEDEX shipment
1755 - Jim Hedberg departs
1815 - Steve + Jeff depart for Hotel

1745
1745

John Wilson - 25 Oct 94

NO CHANGES
26 Oct 94

WX: Sunset = 5:52pm / Sunrise 7:18am
Partly cloudy 48° @ noon
Northwest to
Southwest to 51° @ 5 PM
Light, westerly breeze as low erodes 10 mph
Clearing trend - partly cloudy/sun this pm
Higher temps as week progresses
0704 - On site @ Decon Pad. Bill
H. is here.

0715 - Calibrated PID w/ 75 ppm
isobutylene. PID # NA930184. ISO
lot 3-188 7/15/94
0734 - Met w/ Sgt Larson at CSC:
A/C @ 0815, 0840, + 0900
Due in: 0800 Back at noon
(1145-1230). Additional prop a/c
coming in this A.M. (unk time)
0739 - Back @ Decon Pad. Driller
0815 - moved to E Street due to flying
opals.

0820 - H+S Briefing
Attendees: Jim H, Jeff, Craig, Brian,
Reuben, + Mark.
Subjects: All ✓ list items; sent belts,
PPE news, VISITORS (Gawkins)

26 Oct 94

0828 - Dig moved into place @
04-020 PS. Placed LEL

+ turned on PID

Ambient Air = 0.0 ppm

0835 - PID of hole @ Surface - 1' = 1.3 ppm

0838 - " " Spun = 1.0 ppm - CAP

0843 - PID of hole @ 1'-3' = 14.3 ppm

0846 - PID of Spoon cap @ 1'-3' = 18.2 ppm

0850 - msg delivered by Lt Rabynd

to call ANGRAC / Dan Waltz

0852 - Reported site to find Jet

0854 - Back on site - delivered Jet

to Clinic to call.

0859 - Ruben + Mark completing ATTA

+ Field GC samples

0905 - Ambient air at back of rig = 0.2 ppm

0906 - PID of hole @ 5'-7' = 221 ppm

0907 - " of Spoon Cap 5'-7' = 229 ppm

Can smell gas. (product). Dirt is wet.

0921 - PID of hole @ 11.5'-12' BLS

= 420 ppm

0931 - ATTA of 5'-7' soil = 780 ppm

PID returned to 0.5 ppm

0932 - ATTA of 1'-3' soil = 42.3 ppm

Dan Waltz 26 Oct 94

NO ENTIRE 26 Oct 94

Wednesday, 26 Oct 94 (39)

0940 - Capt Wickman on site - discussed clearance w/ utilities (underground).

0946 - Jeff + Bill H. joined conversation.

Capt Wickman will clear last point + return map to Jeff

0954 - Picked up Driller + returned to site to discuss SDW changes

- + NO more H₂O samples to lab - GC only
- + Soil Samples at every 3rd point to lab
- + NO PZs

+ Will be doing monitoring wells (4)

+ GC results on H₂O - send to Don Waltz (detection limits)

1006 - Defined Driller back to clean pad

1011 - Back to site 04-019 PS

1030 - Driller on site 04-019 PS

Set LEL + warmed PID

Ambient Air @ table = 0.0 ppm

" " @ Back of rig = 0.0 ppm

1040 - PID of surface to 1' = 0.5 ppm (spoon)

1046 - " " Spoon cap 1'-3' = 22.5 ppm

1047 - PID of borehole 1'-3' = 273 ppm

1049 - Can smell product in soil sample on table

LAST ITEM

Jeff Wickman - 26 Oct 94

26 Oct 94

NO GEMMA

Driller

Wednesday, 26 Oct 94 (41)

1102 - PID of Spoon (cap) @ 5'-7" = 2.0 ppm

1110 - Site Breakdown Underway.

Drillers to Decon pad. We will move to 04-021PS next.

1138 - Drill rig back from Decon pad.

Set up on 04-021PS

1143 - PID of borehole surface to 1' = 0.2 ppm

1144 - PID of Spoon cap surface to 1' = 4.8 ppm

1148 - PID of borehole 1'-3' = 0.0 ppm

PID of Spoon cap 1'-3' = 10.2 ppm

1211 - PID of borehole @ 5'-7' = 0.0 ppm

1212 - PID of Spoon cap @ 5'-7' = 1.0 ppm

1225 - Finished w/ this hole

1230 - Lunch

1330 - DW site @ 04-028PS by Flower

bed

WX: cloudy 48° @ 1300 at airport

MID Afternoon: less clouds (clearing trend)

High: 50's Tonight: 30's

NW-W 10 mph winds

1355 - Short H&S briefing

Attendees: Jim, Craig, Brian, Pachen, - Steve

Subjects: WX, v list items

1415 - H&S 1700

John Wilder - 26 Oct 94

no further delay

142

Wednesday, 26 Oct 94 (43)

1357 - Driving spoon at 01-027PS
Ambient air @ back of rig: 0.0 ppm
1358 - PID of borehole 0'-1' = 0.0 ppm
PID of spoon cap 0'-1' = 2.8 ppm
1408 - PID of borehole @ 1'-3' = 16.3 ppm
PID of spoon cap @ 1'-3' = 143 ppm
1424 - PID of borehole @ 5'-7' = 346 ppm
PID of spoon cap @ 5'-7' = 1796 ppm

1440 - LEL Alarm - meters read 0-K.
Alarm is persistent. All meters read
normally & green light is on - indicate
a malfunction, NOT LEL condition.

Circuit should lock & green light extinguish
if LEL indicated. Battery V = 0-K (80-90
percent). Recycled on-off button &
LEL now operating normally. According to
operating book, leaded gasoline (lead) causes
malfunctions, as well as silicone & hydraulic
fluid. High hit on this hole; could be
lead from gasoline residue?

1453 - Driller to decom pad to down
rig. Been finishing up sample.

1510 - Rig back. Set up on 01-027PS.

LAST ITEM

Final 26 Oct 94

Final 26 Oct 94
No further
145

Wednesday, 26 Oct 94

1512 - Briefed Rubeen, Craig, & Brian on LEL malfunction, after telecon with Dr. Matt Alexander.

1527 - Recalibrated LEL meter per book instructions. Serial # 6553. ~~15th~~ Replaced LEL @ back (downwind) of

Dig. Note: LEL is in exhaust stream.

Truck is Diesel. LEL operating normally.

1549 - Continuing discussion on what

Sampling protocols must be followed.

Confusion among contracting, ANWR/CENR,

HazWASP auditor, & us on what is

the real scheme. Conference call

tomorrow A.M. Will determine.

1552 - PID of borehole @ 5'-7" = 0.0 ppm

1554 - PID of spoon cap @ 5'-7" = 0.0 ppm

1613 - Put caution tape around PVC

"well" on D4-028 PS. Took PIC.

1625 - Drilled off site to ~~decon pad~~.

1648 - Drilled on site @ D4-023 PS

Site setup in progress. LEL in place.

PID reading ambient air @ 0.0 ppm

1650 - Current Temp: 48°F, 14% W/NW breeze

Partly sunny - LAST ITEM -

John Wilson 26 Oct 94

NO ENTRY
Hazardous
26 Oct 94

(46)

WEDNESDAY, 26 OCT 94

(47)

1650 - Spoon in ground @ 04-023R
1651 - PID of hole surface - 1' = 0.0 ppm
PID of spoon cap @ surface - 1' = 0.0 ppm
1701 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 3.1 ppm
1711 - PID of borehole @ 3'-5' = 0.5 ppm
PID of spoon cap @ 3'-5' = 1.2 ppm
1725 - Site activities complete
Site breakdown / Decon begins
1800 - Off base for hotel / FedEx

NO ENTRY - 26 OCT 94

1725
FAST

Johnson - 26 Oct 94

10

THURSDAY, Oct 27, 1994 (47)

WX: Sunnier today, with higher temps
Higs: 60-65°
SW Wind 15-25 mph [NOTE DIRECTION CHANGE]

0700 - ON Buck@ Decon Pad
0705 - Calibrated Microtip MP-1000 PID
Serial No. NA930184 WITH 75ppm
ISOBUTYLENE, LOT #3-188, 7/15/94, USING
TEPLAN-BAT & TAIGON TUBING.
MARK IS CALIBRATING LEL.

Jeff & Bill H. are gone to admin bldg to
make conference call to ANLONC. Subject
is exact sampling plan

0721 - WIND @ APF = 210°/6 KTS
MARK & RUEBEN depart for ice run

0737 - MARK & RUEBEN back.

0746 - ON SITE @ 04.026 PS. Standing water
at flag - will need to be moved. Jeff back
from phonecon. Results:

- + Back on original soil sampling plan
- + Install 5 GW wells
- + Not sampling GWater except for GC
- + Will be doing PZs IAW workplan

Jim Williams 27 Oct 94

100 CONTINGENT
27 Oct 94

(50)

THURSDAY, 27 OCT 94

(51)

0749 - HVS Briefing

Attendees: Mark, Ivelson, Jeff, Brian, & Craig

Subjects: WX; all visit items

Gloves, seat belts, Wind direction change emphasized.

0752 - Plan is to return to port

0753 - SMSGT South (Fire Chief) stopped & talked w/ Steve, Jeff, & Bill H. Discussed old fuel spill. Bill H will visit Mr.

Gradowski, the last on-base person who

witnessed the spill.

0810 - On Site @ [04-019PS] Raven +

Mark are changing table covers (plastic) on both tables. LEL put in place

(S.W. wind). PID ^{few} was good.

Ambient Air = 0.6 ppm

Current Temp: 36° Sunny

Very few cloud wisps - mostly clear

0820 - PID of (New) 04-019PS from

Surface - 1' = 0.4 ppm

PID of Spoon cap @ Surface - 1' = 0.6 ppm

0815 - Phone call w/ SML Birch

0820 - PID of hole @ 3'-5' = 210 ppm

John White 27 Oct 94

NO GROUND
WATER
27 Oct 94

0840 - PID of Sporn @ 3'-5' = N/A
(No recovery)

AMBIENT BACKGROUND = 0.7 ppm

0853 - PID coming out of ground @ 5'-7'. Can smell PID, which is wet + covered w/ wet, sloppy mud

0900 - PID of hole @ 5'-7' = 12.1 ppm

PID of Sporn cap @ 5'-7' = 0.5 ppm

[I believe contamination from fuel is shallow]

0909 - PID LeBarth indicator illuminated (Was changed all night). Switched to alternate PID

0910 - Calibrated Microtip MP-100

Serial No. NA890204 with 75 ppm

Isobutylene. Calibration complete.

0915 - Site investigation complete. Driller to Dean pub.

0918 - Rueben + I into clinic. Reviewed fuel spill data w/ Bill H. + Jeff, including Pic of base

0940 - On site @ 04-02125 (Resample)

LEL put in place; PID operating @ 0.0 ppm

0950 - PID of hole @ Surface to 1' = 0.0 ppm

PID of Sporn cap @ Surf - 1' = 1.5 ppm

Shawline 27 Oct 94

NO ENTRY
Shawline
27 Oct 94

NO ENTRIES
27 OCT 94

0958 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1006 - PID of hole @ 3'-5' = 0.0 ppm
1011 - PID of spoon cap @ 3'-5' = 0.0 ppm
1023 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
1032 - Lt Huebner stopped by site.
Asked if base foot traffic is a problem.
Assured him it is not. He can send out
e-mail msg if we need to, to all base
personnel.

1034 - Secured CCL, since drilling has
failed @ this site. Plan is to get one
more hole before lunch, then get QA/QC
Samples as required.

1113 - HAS Briefing

Attendees: Jeff, Bill H., & Huebner

Subjects: Eye hazard; glove up; wind
1120 - Watched collection of Nintente
blaster w/ Jeff & Huebner doing the
collecting.

1145 - Tried to Sample 04-019PS - NO
Water. PID = 0.0 ppm

1215 - Decon taken

JWH 27 Oct 94

THURSDAY, 27 OCT 94

1215 - Sampled [04-023PS] for GC
Sample. Back to decon bails PID = 0.011m
1228 - Sampled [04-027PS] PID
= 0.0 ppm. Back to decon
1238 - Opened 04-028PS

PID = 1002 ppm. Can smell well
(POL smell), SUCCESSFUL in collecting H₂O
1256 - PID of 04-020PS (corner of E Street)
PID = 56.0 ppm. Bail was successful.

1312 - Departed for Lunch
1404 - Back on site. Drillers have
returned from fixing rig + lunch. Had to
replace hydraulic part. Departed to decon.

1415 - CAPS Wickman on site. Has shot off
Water in CE area. Fire dept will be
spraying, new trees tonight. Discussed
drilling between drainage pipes

1435 - Drillers Back from decon. Moved rig
into place @ [04-021PS] to punch down
into sand to reset well (well was dry)
1440 - HAS Briefing

Attendees: Brian, Craig, Padden
Subjects: W.V., evac, Tank revision,
emergency equip locations

John W. [Signature] 27 Oct 94

NO CHANGES
THURSDAY 27 OCT 94

no further work 27 Oct 94

THURSDAY, 27 OCT 94

- 1441 - ~~Site~~ Hedberg departs site for airport
- 1445 - Redrilling of **04-021 PS** begins
- 1507 - Tried to push pipe down - only @ 6' BLS (bottom of pipe) because hole collapsed when rig boring device with drawn. Soil is very sandy + very fine.
- 1545 - Moved Rig into PSN at **04-032 PS** Between two large culverts. We all are apprehensive that the rig will hit cement on the culverts, subsurface. Must position rig very carefully. Will go thru non-made fill before hitting H₂O. LEL in place + PID operative.
- Ambient air = 0.0 ppm
- 1553 - PID of hole @ surface - 1' = 0.0 ppm
- PID of Spoon cap @ surface - 1' = 0.0 ppm
- 1558 - PID of hole @ 1'-3' = 0.0 ppm
- PID of Spoon cap @ 1'-3' = 0.0 ppm
- 1600 - LT Huelman on site - just monitoring progress
- 1613 - PID of hole @ 5'-7' = 0.0 ppm
- PID of Spoon cap @ 5'-7' = 0.0 ppm
- 1619 - LT Huelman off site.
- 1620 - PVC in place + sensor set

John W. 27 Oct 94

Thursday, Oct 27 1994

1645 - Moved to [04-026PS]. Setup in progress. PID is operable = 0.0ppm LEL in place. Ambient air @ site is 0.0ppm. Note: location is behind temporary fire dept bldg at edge of asphalt parking lot.

1700 - PID of hole @ Surface - 1' = 0.0ppm

PID of spoon cap @ Surface - 1' = 0.0ppm

1706 - PID of hole @ 3' - 5' = 0.0ppm

PID of spoon cap @ 1' - 3' = 0.0ppm

1720 - PID of hole @ 5' - 7' = 0.0ppm

PID of spoon cap @ 5' - 7' = 0.0ppm

1720 - Capt Wickman on site

1725 - " " Off site

1730 - Complex on site

1735 - Decanned old bottles/vials

1755 - Traveled to Decon pool

1810 - Departed for Hotel

VAT 112M

Orville 27 Oct 94

NO ENTRY 27 OCT 94

(62)

TUESDAY, Oct 28, 1994

(63)

WX: Increasing clouds today w/ cold front
moves in from NW. High in mid-60s
WIND: 20-30 mph from SW
Risk of precip tomorrow A.M.

Sunny on Sunday, but chilly

0700 - On Site @ Decon pad

0710 - Calibrated PID w/ 15 ppm

Isobutylene. PID Serial # NA890204

ISO Lot # 3-188, 7/15/94

0715 - Mark calibrated LEL

0730 - Dallen working on Decon PAD

Rueben + Mark departed for ice

0745 - Moved to Site 04-004PZ at
corner of CE & Fire Dept. Near site of old

Pipeline break.

0750 - Rueben back w/ ice

0755 - LEL in place

0800 - H & J Briefing

ATTENDEES: Rueben, Jeff, Craig, Brian, +
STEVE

Subjects: All visit items, slipping hazard (mud),
this is the old pipeline break location,
watch olfactory clues.

LAST 176m

Steve Rueben 28 Oct 94

NO GUTTERS
27 OCT 94

FRIDAY, 28 Oct 94

(65)

0807 - Ambient Air at Sample table = 3.9 to 4.3 ppm.

0813 - PID of hole @ Surf - 1' = 0.5 ppm ^(has been corrected)

PID of Spoon cap @ Surface - 1' = 6.7 ppm

[Ambient Air = 3.7 ppm] $\frac{-3.7 \text{ ppm}}{3.0 \text{ ppm}}$

Corrected PID = 3.0 ppm

Current Temp = 43° Winds from SW @

10 mph

0825 - PID of hole @ 1'-3' = 1.4 ppm

PID of Spoon @ 1'-3' = 34.4 ppm

0832 - PID has dropped back to 4.4 ppm

ambient air. Now 4.0 ppm

0846 - PID of hole @ 5'-7' = 9.6 ppm

0850 - PID of Spoon cap @ 5'-7' = 26.1 ppm

0911 - Ambient Air = 2.2 ppm

Temp = 48° - Steady SW Wind @ 15 mph

0912 - Problem w/ rig - drive cap won't

come off top pipe. Pipe wrenches won't bite - are too old & worn.

0931 - Drillers off site to hardware store to get new wrenches.

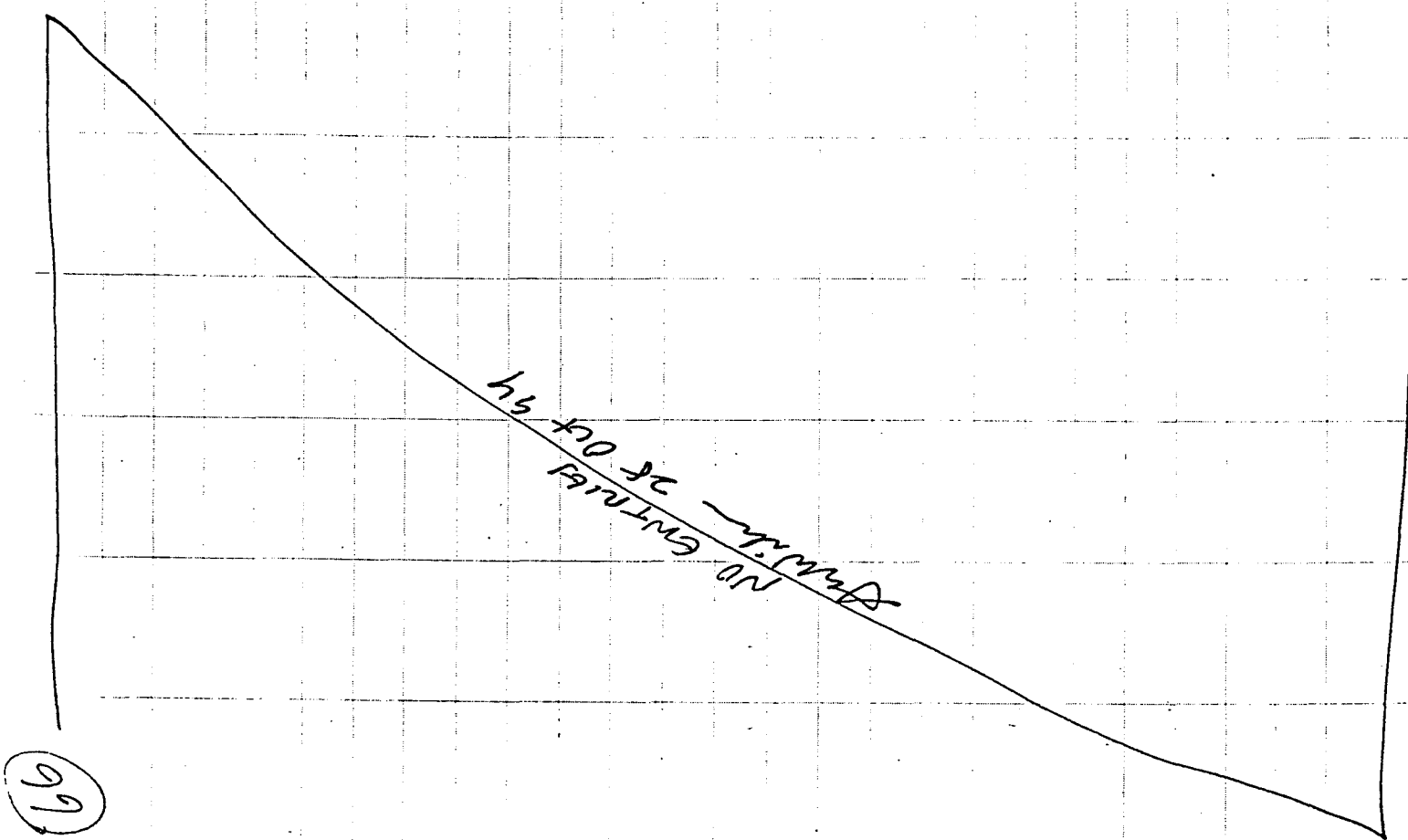
1000 - ~~Drillers~~ back - New wrenches. Got

Problem fixed.

Ambient Air = 0.0 ppm Temp: 50°F

John Walter - 28 Oct 94

NO CHANGES
28 Oct 94



1001 - PID of hole @ 8'-10' = 2.8 ppm
 PID of Spoon cap @ 8'-10' = 0.7 ppm
 Note: Sample is wet.

1010 - Are punching down to 16' to set PZ.

1016 - Wind is picking up - est: 15-20 mph
 & gusty Temp is 50° - Overcast

1023 - Pushed well into hole w/ hydraulic assistance. Reached bottom (16') w/ no problem.
 Took pics.

1039 - Moving to Site 04-025PS

1040 - Visited by Bob Kopper, Fireman.
 Just curious what we're doing. I talked to him & he departed @ 1042

1054 - Drilled back from downing.

1101 - LEL in place. PID reading 0.0 ppm
 Temp: 57°; Wind strong from SW @ 15 mph

1104 - PID of hole @ Surface - 1' = 0.0 ppm
 PID of Spoon cap @ Surface - 1' = 0.0 ppm

1111 - PID of hole @ 1'-3' = 0.0 ppm
 PID of Spoon cap @ 1'-3' = 0.0 ppm

1121 - PID of hole @ 3'-5' = 0.0 ppm
 PID of Spoon cap @ 3'-5' = 0.0 ppm

1140 - PID of Hole @ 5'-7' = 0.0 ppm
 PID of Spoon cap @ 5'-7' = 0.0 ppm

[Signature] 28 Oct 94

FRIDAY, 28 OCT 94

69

1143 - High of 63° expected today;
Cloudy; Strong wind (radio report): 61°

AMBIENT Air @ Table = 0.0 ppm

1201 - Rig pushed down to 12 feet; NO
water - outside of barrel is dry on all
parts.

1212 - Rig had continued on to 18' - hit
water betw 12'-18'. Barrel wet on outside.

PID of hole @ 18' = 0.0 ppm

1215 - Driller poured small amount of sand
(clean) into borehole to form steady pad at bottom.
Sand bridged about 5' down. Had to re-erect
rig & drive steel rod thro the bridge. ^{NOT} Successful.

1246 - Decision had been made to redrill
a new hole 1/2 foot away from the previous
one to collect a soil sample at the 10'-12'
level (above water table). Driller
deanned & drilled down to 10'-12'.

1247 - PID of hole @ 10'-12' = 0.0 ppm

PID of spoon cap @ 10'-12' = 0.0 ppm

AMBIENT air = 0.0 ppm at table

1248 - Temp = 60°; overcast; very
windy (20-30 mph). Gusty.

1250 - Screen put down hole.

J. W. W. - 28 Oct 94

28 OCT 94

NO CONTAMINANTS
THROUGHOUT

70

FRIDAY, 28 Oct 94

(71)

1303 - ZEL Alarm. Plastic beneath rig had blown up + plugged intake hole. Choked off O₂. While repositioning + cleaning LEL, noticed hydraulic leak under rig. Brought to attention of Craig. They will clean/fix at decom p.d.
1304 - Mark E. called MATT in response to page. Cell phone quit in middle of conversation. Was not recharged last night.

1320 - Hole 04-025PS collapsed again (3rd time). Could not get PVC down. Decision made by Site Mgr to abandon. Will notify ANLRC.

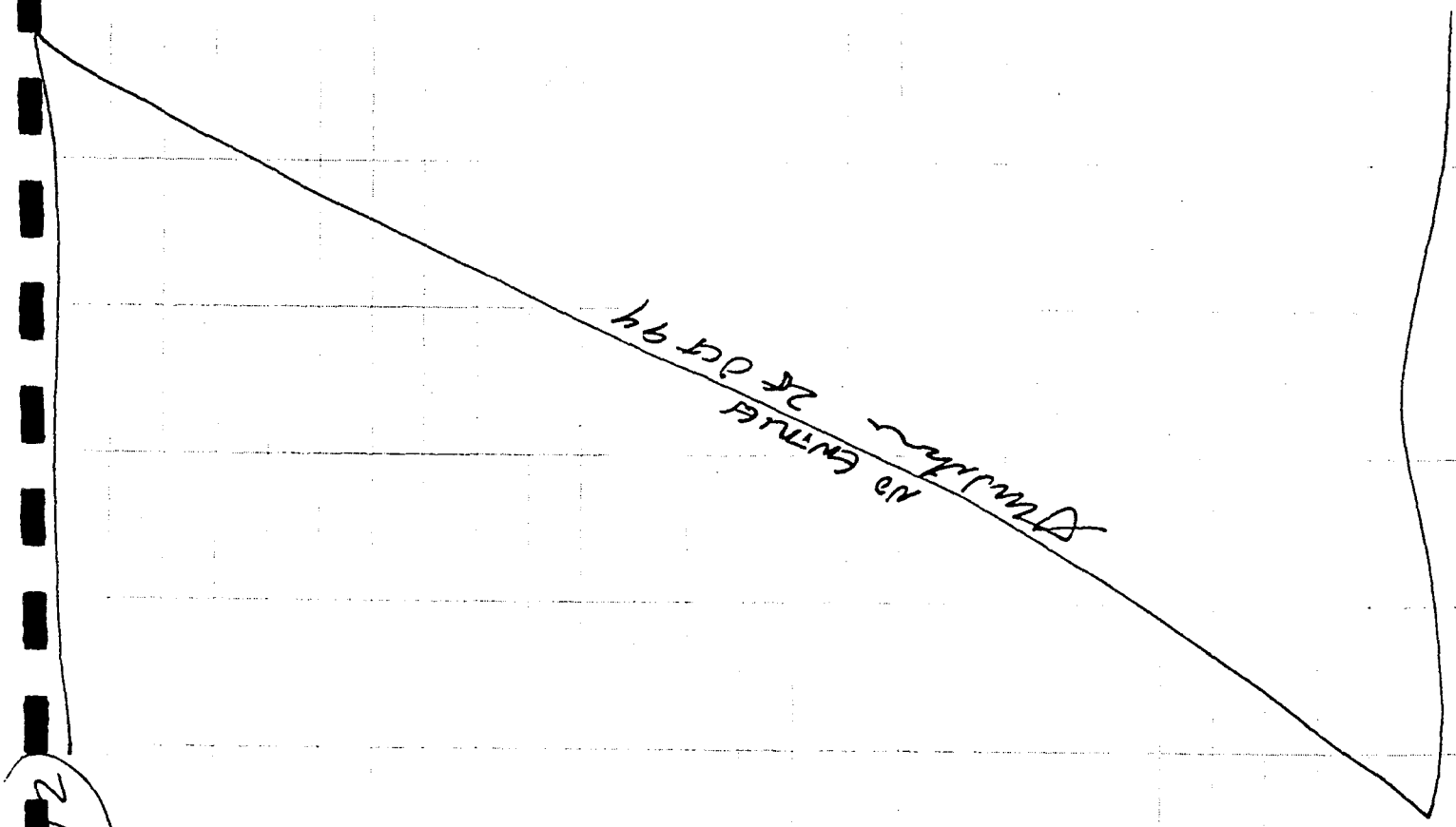
1330 - ~~Lunch~~ ^{9th hr} 1430 - On site 04-025PS. Warmd up PID - reading 3.8 ppm - UNSAT
1432 - Recalibrated PID with 75 ppm Isobutylene. Serial # NA890204.

ISO lot # 3-188, 7/15/84.
1450 - Confirm: We are at 04-025PS.
Temp: 60° Wind 20-30 mph (very strong)
Overcast conditions.

LAST ITEM

28 Oct 94

no comment 28 Oct 94



1515 - PID of hole @ Surt-1 = 0.0 ppm
PID of spoon cap @ Surt-1 = 0.0 ppm
1537 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1540 - PID not as responsive as usual.
Checked in exhaust - needs recalib.
1543 - Recalibrated PID w/ 75 ppm
Isobutylene. PID Serial NO. NA980204
1550 - Lot 3-188, 7/15/94. Checked
in exhaust - deflects rapidly now.
1544 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.6 ppm
Ambient air @ back of rig = 0.0 ppm
1556 - Brought out other PID & calibrated
it. PID # NA980184. Isobutylene
@ 75 ppm, Lot 3-188, 7/15/94.
1600 - Ambient air = 0.0 ppm. PID
looks very good - very responsive.
1605 - Leaving this hole. Breating
down site.
1615 - Stopped at CSC. Coordinated
crossing of November highway & over
presence behind the KC-135 ramp
- EAST I 75M -

John W. Miller - 28 Oct 94

(74)

no change
28 Oct 94

FRIDAY, 28 OCT 94

(75)

1648 - Plans changed. Now moved to

04-030RS.

PID of hole @ surface - 1' = 0.5 ppm

PID of spoon cap @ surf - 1' = 2.3 ppm

Ambient air = 0.0 ppm

1651 - Getting odors from adjacent

POL (neteling) area. PID goes up

to 0.6 ppm + back down.

1653 - PID of hole @ 1'-3' = 1.9 ppm

PID of spoon cap @ 1'-3' = 1.1 ppm

Ambient Air = 0.2 ppm

1658 - PID of hole @ 5'-7' = 1.8 ppm

PID of spoon cap @ 5'-7' = 2.2 ppm

Ambient air = 0.3 ppm

Samples are saturated in spoon.

1725 - Broke down site 04-030RS.

Plan is to come to base Sat A.M.
+ punch 2 holes. Methanol is limiting
factor. If meth arrives (it has been
shipped by driller) we will continue all
day. If not, will terminate @ noon.

1730 - Left for hotel

LAT item

Sept 19 28 Oct 94

77
SATURDAY, 29 OCT 94

DID NOT WORK - BACK SPASM
STAYED IN HOTEL ALL DAY

SUNDAY, 30 OCT 94

NO WORK.

Reuben Portales departed for
San Antonio

Dr. Andrew Bailing (?) to
arrive in late afternoon
He will be on-site geologist.

LAST 11 PM

Dr. Bailing - 30 Oct 94

78
NO ENTRY 29 OCT 94
Dr. Bailing

ENTRUS
31 OCT 94

THURSDAY

THE

WX: Cloudy + occasional rain today
 Lower 50's = Temp 5:00AM: 47°
 lite West to Northw'd wind 10-15 mph
 Sunrise: 0545 Sunset: 1645
 Temp: Sunny 45°-50°, BUT WINDY

0545 - Departed Hotel for base
 0600 - On base at Decon pad.

Note: New geobyt is Dr. Andrew Raring
 0620 - Calibrated PID, Serial # NA890204
 with 75ppm nobutylene, Lot J-188, 7/15/94.
 PID calibrates O.K.

0744 - Decon continuing on pad w/dallees
 0747 - HVS Briefing

ATTENDEES: Andrew, Cragg, Brian, Mark, +
 Jeff

Subjects: All V/VT items (more in depth
 for Andrew). Watch mod shipping hazards.
 Talked about WX, which is a light
 drizzle; wind calm

0805 - Stopped by CSC. Talked w/
 Mr. P. Grabowski. No flying today
 Can move outboard of ditch, but
 must work with the C.E. (Capt
 Wickman). FAA controls property (on
 Wickman).

THURSDAY 31 OCT 94

Monday 31 Oct 94

(81)

at least the Airport Authority. Must get clearance before going outboard of the ditch.

0820 - Warned PID, having returned to [PZ-D4] location. PID reading 26.7 ppm.
0821 - Recalibrated PID w/ 100 ppm
150 butylene, Lot No. UNK, Manufacturing date 12/93. PID now reads 0.0 ppm
PID Serial # NA890204.

0849 - Sgt Weber, Security Police boundary patrol, stopped by ramp access area to outboard side of ditch. I talked to him about access. He sez crossing taxiway + keeping to ditch is O.K.

0855 - Moved convoy across taxiway + relocated to [D4-D03 PZ], Set up.

0904 - Spoon driven from surface - 1'.

0905 - PID of hole @ Surf - 1' = 0.0 ppm

PID of spoon cap @ Surf - 1' = 0.0 ppm

NOTE: CEL is in place + reading Normal.

0909 - PID of hole @ 1'-3' = 233 ppm

PID of spoon cap @ 1'-3' = 0.0 ppm

Ambient A.R. = 0.0 ppm

0918 - PID of hole @ 3'-5' = 237 ppm

Weber 31 Oct 94

No entries
31 Oct 94

(82)

Monday, 31 Oct 94

(83)

0922 - PID of Spoon cap @ 3'-5' = 653 ppm

Ambient Air = 0.0 ppm

WX: High overcast; gray; NO rain;
Wind calm; temp = 50°

0928 - Lt Drizzle begins

0930 - Spoon coming up from 5'-7'. PID of
extension = 25.7 ppm. Can smell soon.

0935 - PID of hole @ 5'-7' = 1,485 ppm

0936 - PID of Spoon cap @ 5'-7' = ~~784~~ ppm

Ambient Air = 0.0 ppm

0947 - Driving Spoon from 14'-16'

1003 - PID of hole @ 14'-16' = 1,283 ppm

Can smell product.

1104 - PID of Spoon cap @ 14'-16' = 448 ppm

1015 - Keys located in Rental Car.

Security Police on site to assist. Could
not. City of Cudahy does not provide
lost assistance.

1020 - Transferred to SP Office. Called

Several Rental Car agencies.

National owner car. Will be

Sending rep to base w/ keys to
unlock.

1116 - Returned to PZ-1 Site.

J. Williams 31 Oct 94

NO ENTRY
31 Oct 94

(67)

MONDAY, 31 Oct 94

(85)

1117 - Are drilling 5'-7'.

1125 - National Geo Centre on site to unlock rental car.

1138 - PID of hole @ 16' = 0.0ppm

1139 - PID of spoon cap @ 16' = 0.0ppm

1146 - ATHA of 04-003PZ @

5'-7' = 187 ppm

1147 - ATHA of 04-003PZ @

3'-5' = 527 ppm

Note: Wild. Well both ATHA Sample when barely opened.

WX: Rain is steady: Wind very

Slight. Still heavy overcast

Ambient Air: 8.8ppm

1200 - Lunch

1320 - On Site @ 04-003PZ

1323 Saw - Cal. braked PID # NAF90 204

w/100ppm isobutylene (12/93)

1354 - Rig Broke - Push/pull pin swapped.

Driller need to get welded. Will have

new one sent tomorrow too. Fracture break - have never seen one break before.

1355 - PID of spoon cap @ 1'-3' = 0.0ppm

Ambient air = 0.0ppm

Stop Work - 31 Oct 94

NO ENTRY
31 Oct 94

(86)

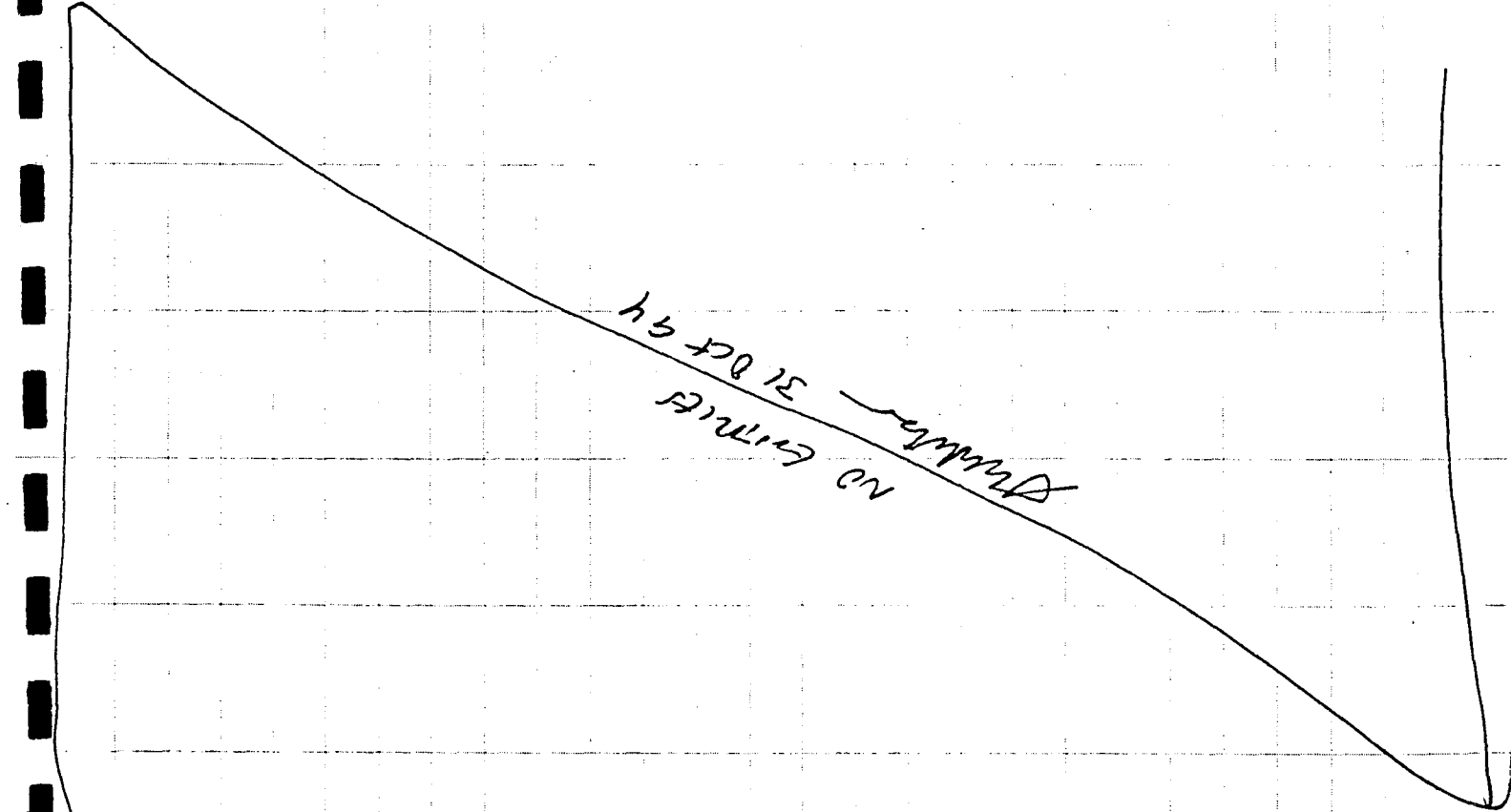
NO EMERGENCY
31 OCT 94

MONDAY, 31 OCT 94

(87)

- 1405 - WX: Cloudy (overcast); Rain;
470 / Wind from N/NW @ 15 mph.
1456 - Drillers back on site w/welder
push/pull pin. Drilling resumed.
PID warmed up. Ambient air = 0-0 ppm
1502 - PID of hole @ 5'-7' = 0-0 ppm
PID of Spoon cap @ 5'-7' = 0-0 ppm
WX: Steady rain (not a drizzle)
+ Wind has picked up - getting colder.
- NOAA WX BROADCAST: occasional rain
Showers across S.E. Wisconsin. Temp
in 40's-50's. Rain ends after midnite.
Forecast - Winds becoming N/10-15 mph
Hi Temp in lower 50's + rain. Currently: 45°F
1530 - Called On-Site about failure
of Second P.D. They diagnose a
blown fuse in the battery pack. Will
send new PID to hotel tonight, for
tomorrow arrival. We will send PID
back to them.
1538 - Broke down site. Will go sample
wells until dark.
1547 - Returned to down P.D.
1550 - Watched drillers decom

31 Oct 94



NO LIMITS
31 OCT 94

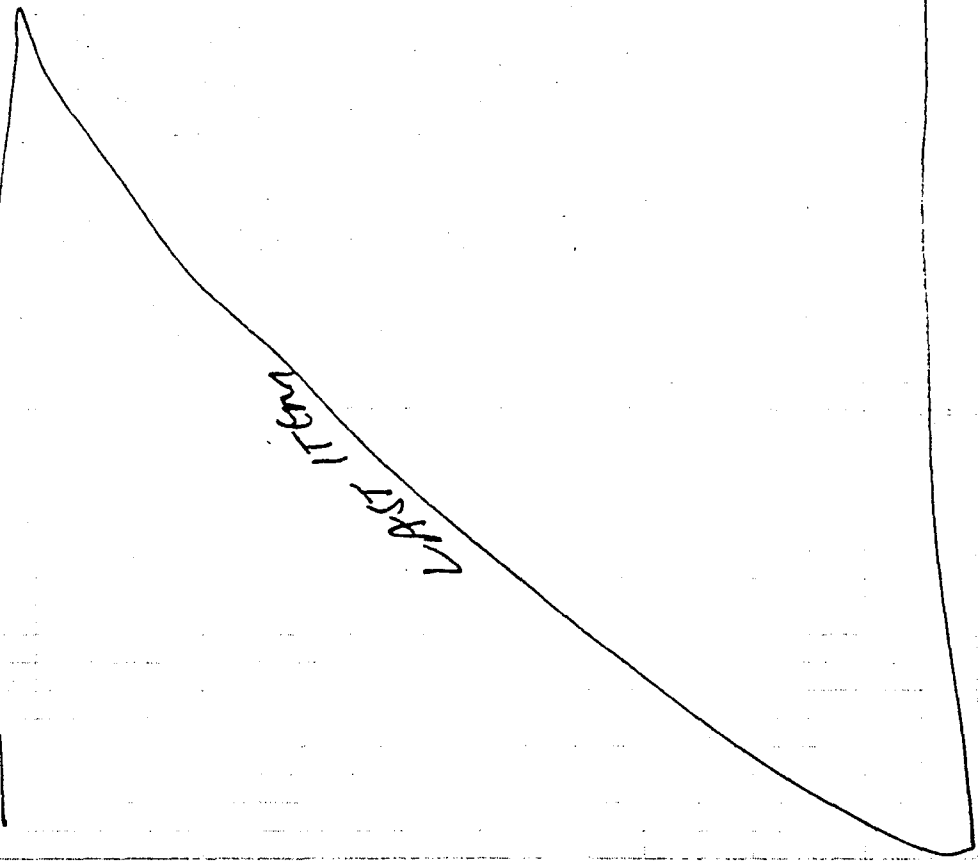
1610 - Moved to PZ-04 to perform

purge op.

1620 - Purgine underway - very little water -
is very silty

1640 - Back @ down pad w/ drillers

1655 - off site for Hotel - is done



11:50 AM

Shulka 31 Oct 94

Sunrise: 0626 Sunset: 1644

WX Today: Hi pressure moving thru today. Expect more sunnier. Lo coming thru tomorrow - colder + windier.

TODAY - mostly sunny; high in 50's

N. Winds 15-25 mph + gusty

0628 - HVS Briefing

Attendees: Mark, Jeff, Craig, Brian, + Andrew

Subjects: All V items. Emphasis on WX

0610 - Calibrated PID w/ 100 ppm isobutylene.

PID Serial # NA840204. ISO: 12/93

PID Reading 0.0 ppm.

0625 - Drillers trying to get key to Bldg

0635 - Stopped by CSC to V on A/C movement

KC-135 sked out at 1000. Need to

coordinate our ops accordingly.

0642 - On site @ PZ-04.

0650 - PID upon opening = 0.4 ppm

0710 - Craig, Brian + I will move

to PZ-02 + purge.

0715 - moved out.

0724 - At PZ-02

Large fox in area.

WX: Hi overcast; very windy; Temp in 40's

LAST ITEM

1 Nov 94

12

Handwritten signature
No entry
1 Nov 54

5

✓ vesday 1 Nov 99

0727 - PID upon opening of PZ-02
= 24-3 ppm. Ambient = 6.5 ppm,
∴ corrected reading = 17.8 ppm
0728 - Water level = 6.9' from top of
casing. Casing = 0.9 ALS. ∴ 6' BLS is
current water level.
0733 - PID started to read erratically.
Recalibrated Serial # NA 850204 with
100 ppm isobutylene (12/93).
Now reading 0.0 ppm + steady
0737 - PID during purging: 1.0 ppm
0742 - Purging complete.
0748 - Moved across November twenty
(FOD V) to PZ-01 location.
0750 - PID upon opening: 0.0 ppm
Ambient Air: 0.0 ppm
0756 - Water level of PZ-01:
7.35' from top of casing -
14.7' to bottom (mud) of well
1.2' from casing to ground
∴ Water = 6.15' BLS at PZ-01
~~0802~~ Purging begins.
0817 - Purging ends.
0820 - Driller, cleaning

John Wilson, Nov 94

(94)

Tuesday, 1 Nov 94

(95)

PZ-Ø3.

0830 - Moved to pgs lot across from

Drillers will cross highway & come around ditch to location across from us.

0841 - Drillers moving out.

0845 - Drillers on site

0846 - PID upon opening: 1216 ppm

Ambient air = Ø.Ø ppm. PID acting

Normally.

0849 - Water level: 4.3' from top of

Casing. Well is 15' deep.

Strong smell of gasoline on water level. Casing is only 3" out of ground.

0900 - Put disconnected steel rod down hole

to break (sand bridge?) loose - PID after

withdrawal of rod = 2,223 ppm

Strong smell out of hole. Ambient air = 0.0 ppm

0901 - Purging begins.

WX: Broken clouds; partly sunny;

Temp = 40°F; Wind from north at

20 mph. Cold.

0928 - This PZ had filled with mud.

The end of the purging screen would get

stuck. Screen was removed & mud withdrawn

by suction. Then purging restarted.

Ch White 1 Nov 94

No active
hydrocarbons
detected - 11/1/94

Wednesday, Nov 94

97

0935 - Pugging of PZ completed

0950 - Moved to site of 04-014 PS

LEC in place. Rig in place.

1001 - PID of hole @ surf - 1' = 0.0 ppm

PID of spoon cap @ surf - 1' = 0.0 ppm

1005 - PID of hole @ 1'-3' = 105 ppm

PID of spoon cap @ 1'-3' = 20.9 ppm

1022 - PID of hole @ 3'-5' = 1,448 ppm

PID of spoon cap @ 3'-5' = 1,228 ppm

NOTE: Spoon smells heavily of product.

1036 - Water level in ~~PZ~~ 04-015 PS
= 2.9' BLS

1034 - Water Sample for GC analysis taken.

Water smells strongly of POL (gasoline?)

1047 - ATHA of soil @ 1'-3' = 18.7 ppm

1112 - ATHA of soil @ 3'-5' = 1,446 ppm

1113 - Moved to 04-014 PS. Site

Setup. Ambient air = 0.0 ppm

1118 - PID of hole @ Surface - 1' = 0.0 ppm

PID of spoon cap @ Surface - 1' = 0.0 ppm

1126 - PID of hole @ 1'-3' = 0.0 ppm

PID of spoon cap @ 1'-3' = 0.0 ppm

1131 - PID of hole @ 5'-7' = 29.7 ppm

PID of spoon cap @ 5'-7' = 473 ppm

Blubb / Nov 94

No entry
until
Nov 94

(98)

10/14/94
10/14/94
10/14/94

Tuesday, 1 Nov 94

(99)

1145 - PID of hole @ 7'-9' = 384 ppm

PID of spoon cap @ 7'-9' = 617 ppm

Samples are very wet.

1153 - Water level taken in 04-014R

Water in @ 5' BW.

1156 - Water sample for field cc taken

Site broken down.

1157 - ATHA of soil @ 1'-3' = 0.0 ppm

ATHA of soil @ 7'-9' = 283 ppm

1200 - Lunch

1310 - Stopped by CSC. No flying today until Nitetall. We're cleared to the west side of the ramp.

1326 - Arrived at 04-012R.

1332 - Calibrated new PID, Serial #

NA930182 with 100 ppm isobutylene (12/93).

Ambient air = 0.3 ppm

1335 - PID of hole @ Surf-1' = 2.0

PID of spoon cap @ Surface-1' = 2.6 ppm

1342 - PID of hole @ 1'-3' = 40.2 ppm

PID of spoon cap @ 1'-3' = 3.2 ppm

WX: Sunny: Strong breeze. Temp: lower

SOIS: No precip

J. W. W. 1 Nov 94

1349 - Ambient air = 0.0 ppm

1400 - NOAA Wx Broadcast (162.4 MHz)
STATION KEC6D.

+ Sunny this afternoon. Low pressure building in Canada. Will hit W. Wisconsin by Wed afternoon.

+ Sunny w/ high in low SW: N-NW 10-20 mph
++ NO precip thru Fri. Chance of rain Sat.

++ 1300 - Temp 50° 56% humidity

Wind: NE @ 18 mph 24.78%

1404 - PID of Spoon cap @ 5'-7' = 2.0 ppm
PID of hole @ 5'-7' = 14 ppm

1416 - PID of hole @ 10' = 20.6 ppm

1417 - "LOBAT" indication on new PID

Warned up PID # NA890204

1418 - PID of "well" (pvc screen) @ 12' = 84.1 ppm

1422 - Water Sample for field GC collected.

1423 - Water level: 3' above land

Surface is the casing. Water is

at 11.4' from top of casing.

∴ Water at 8.4' BLS (after bailing)

1426 - Completed work at 04-012 RS

LAST 102m

John 1 Nov 94

NO NEW 1
PREF 2 ON 2200

Tuesday 1 Nov 94

1454 - Driller back from Decon. Moved onto 04-011 PS location.

1503 - PID of hole @ Surf-1' = 0.0 ppm
 PID of spoon cap @ Surf-1' = 0.0 ppm
 Note: LEL in place @ 1500 L.

Ambient air = 0.0 ppm

1505 - PID of hole @ 1'-3' = 0.0 ppm

PID of spoon @ 1'-3' = 0.0 ppm

1509 - PID of hole @ 5'-7' = 0.0 ppm

PID of spoon @ 5'-7' = 0.0 ppm

Ambient air = 0.0 ppm

1520 - Finished. Site Break down

1611 - Moved to 04-013 PS

LEL in place. PID Ambient air = 0.0 ppm. Table set up.

1617 - 1st spoon into ground

PID of hole @ Surface-1' = 0.0 ppm

PID of spoon cap @ Surf-1' = 0.0 ppm

1623 - "LOBAT" INDICATION ON PID

1628 - PID of hole @ 5'-7' = 0.0 ppm

PID of spoon cap @ 5'-7' = 0.0 ppm

Ambient air = 0.0 ppm

1633 - PID Dead

1641 - Water in 2.4' casing top to ground

1 Nov 94

Driller - 1 Nov 94

(101)

TUESDAY, 1 NOV 94

105

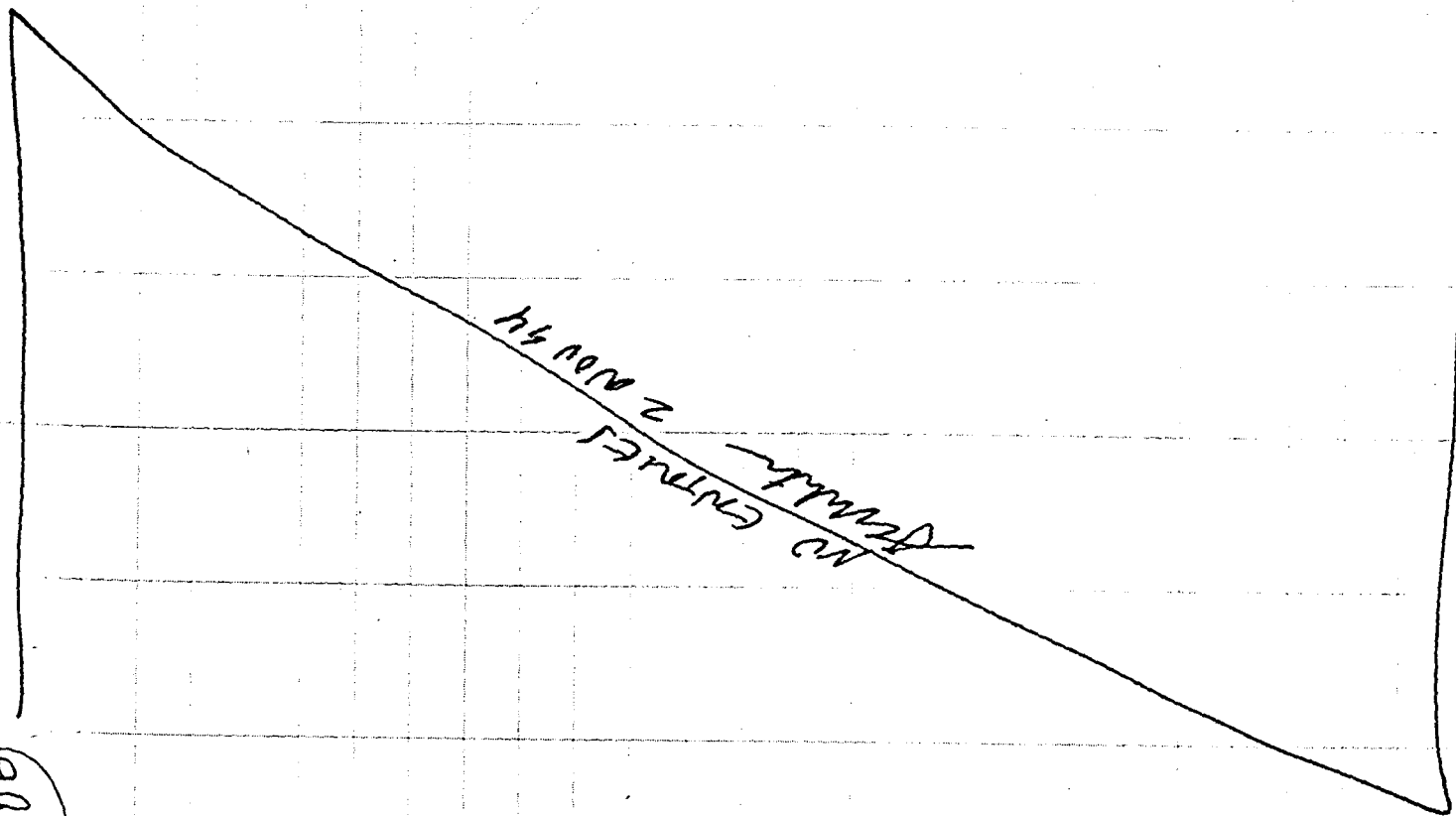
Water = 8.2' from tip of casing
Water is 5.8 ft BLS at
04-013PS @ 1642L
1645 - Site Breakdown completed.
Returned to Dixon Pad
1710 - Departed Base for hotel

NO
Dixon
ENTERED
1 NOV 94

LAST ENTRY

Dixon - 1 NOV 94

(106)



NO ENTRY
2 NOV 94

WEDNESDAY, 2 NOV 94 (107)

WX: PARTLY SUNNY TODAY; High in 50's;
NO PRECIP; WINDS FROM S/SW @ 10-20 mph
TOMORROW: FRONT COMING - chance of precip
in afternoon. SR: 0627/SS: 1643

0600 - ON SITE @ DECON PAS

0615 - Calibrated PID w/ 100 ppm

Isobutylene. PID Serial # ~~W~~AG30182

ISO DATED 12/93. PID operating, O.K.

0640 - Stopped by site [04-026PS]. Site is
located in drainage ditch behind Fire Dept
trailer. Site is underwater (3" of standing
water) despite no rain events. Site will have
to be moved.

0645 - Moved to [04-018PS].

0652 - First Spoon in ground.

Ambient Air = 1.1 ppm

0653 - PID of hole @ Surf-1' = 1.1 ppm.

PID of Spoon cap @ Surf-1' = 1.3 ppm

0658 - PID of hole @ 1'-3' = 3.3 ppm

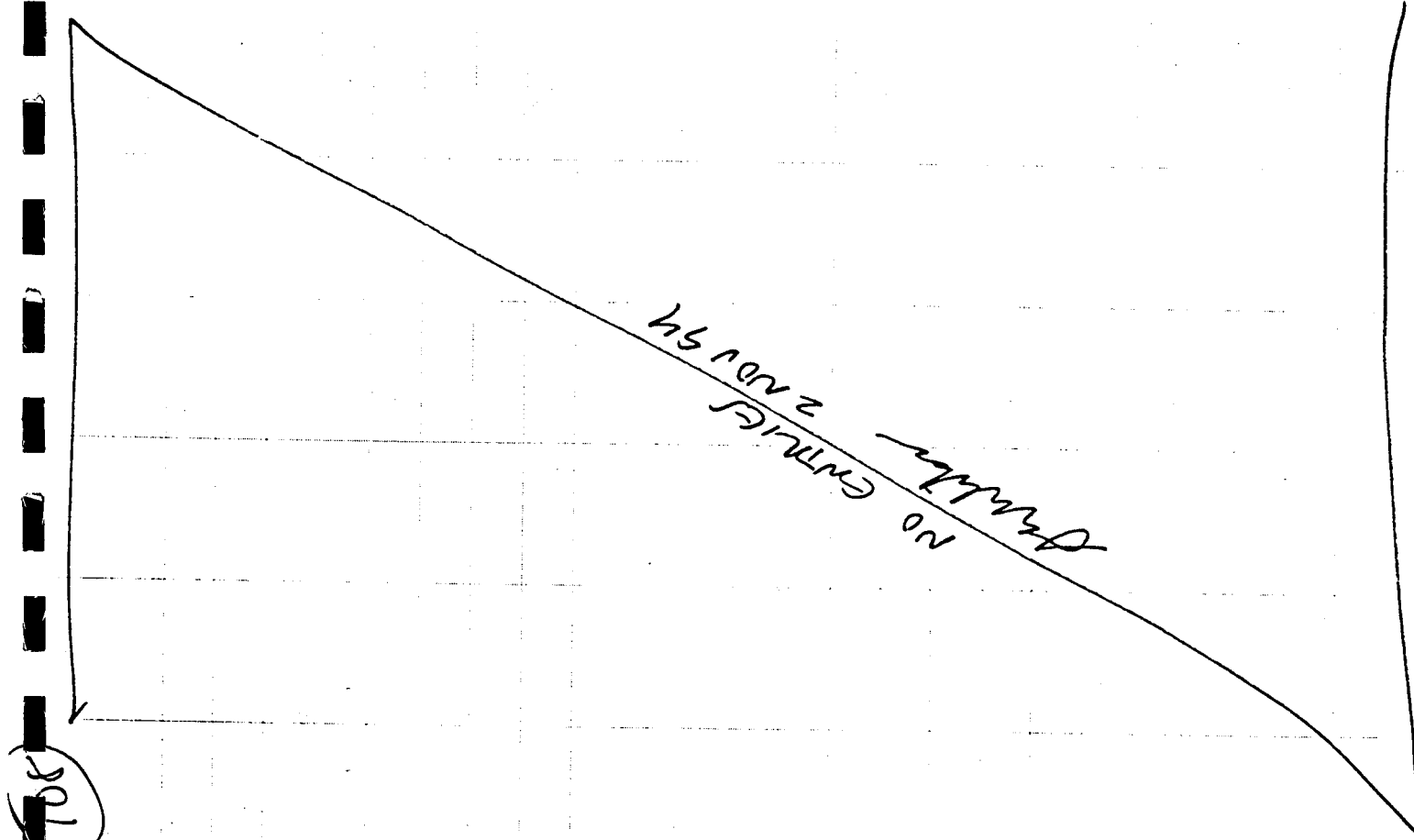
PID of Spoon cap @ 1'-3' = 3.2 ppm

AMBIENT AIR = 2.8 ppm

NOTE: MISSED ENTRY: 0620 Health +
Safety Briefing held @ Decon Pad.

ATTENDEES: Craig, Brian, Jeff, Mark, + Andrew

Stubble - 2 Nov 94



Has Subject: All Vist items. Extra
 reminder on wear of safety goggles
 0705 - PID of hole @ 5'-7' = 482 ppm
 PID of PID cap @ 5'-7' = 872 ppm
 0710 - "LOBAT" INDICATION ON PID
 0715 - WARNER & CALIBRATED PID
 SERIAL # NA 890204 W/100 ppm isobutylene
 MANUF DATE 12/93.

AMBIENT AIR = 0.0 ppm

0721 - PVC in hole - rig moved away.
 0723 - Water level: Casing is 4' ALS.
 Water = 9.1 from top of casing to water.
 \therefore Water = 5.1' BLS @ 04-018 PS.
 0731 - Bailed well for samples for GC.
 PID = 1025 ppm. Can see free product
 on surface of groundwater sample.
 0737 - SPOTS # 2 & # 5 - KC-135's
 moving, this morning. That's the only flying
 activity today. Take offs within the next hour.
~~0800~~ Informed by Drillers that rig
 is broken. Rear wheels are locked up
 and bolts have been sheared off. Major
 repairs are required. Craig wants to drill out
 bolts, replace them, + "see what happens."

John White 2 Nov 94

(110)

NO GROUNDWATER
WITHIN 2 NOV 94

WEDNESDAY, 2 NOV 94 (111)

- 0806 - Informed Jeff, who is @ front gate w/ surveyors. Jeff recommends getting QA/QC samples done (institute slants) + ~~sample~~^{purge} PZs.
- 0815 - Returned to parking lot where drilled are working on rear axle.
- 0900 - Bolts replaced in rear axle. Truck is fixed + operational
- 0911 - Moved to Q4-016 PZ Site Setup.
Ambient air = 1.6 ppm at table.
At back of rig = 1.0 ppm
- 0917 - PID of hole @ Surf - 1' = 1.0 ppm
PID of spoon cap @ Surface - 1' = 0.2 ppm
- 0920 - Ambient air now 0.0 ppm
PID of hole at 1'-3' = 10.6 ppm
PID of spoon cap @ 1'-3' = 47.3 ppm
- 0926 - PID of hole @ 5'-7' = 86.1 ppm
PID of spoon cap @ 5'-7' = No Recovery (wet)
- WX: Hi overcast (partially broken);
Strong southerly wind 10-15 mph; Temp in hi 40's. Partially Sunny.
- 0927 - LEL ✓: Reading normal
- 0934 - Water: 3.2' BLS
PID of PVC casing = 268 ppm
- Johnston* 2 Nov 94

- 1000 - Moved to 04-017PS (in street behind new firehouse)
- 1006 - Drilling of street begun. Env protection required.
- 1018 - Spoon into ASPHALT HOLE
- 1019 - PID of hole @ Surface - 1' = 0.0 ppm
PID of spoon cap @ Surface - 1' = 0.0 ppm
- 1024 - PID of hole @ 1'-3' = 0.0 ppm
- 1027 - Recalibrated PID Serial # NAG90204 w/ 100 ppm isobutylene, nonuf: 12/93
- 1029 - PID of hole @ 3'-5' = 0.0 ppm
PID of spoon cap @ 3'-5' = 0.0 ppm
Ved PID in exhaust - OK
- 1053 - PID of PVC pipe after bailing, = 17.1 ppm
- 1059 - Site breakdown & patching of Street
- 1117 - Back @ 04-017PS w/ Craig. He is sealing this hole with granular bentonite with a cold asphalt cap.
- 1200 - Lunch
- 1315 - To hotel to pick up charger
- 1320 - To Site 04-024PS. Moved flag out of ditch (due to water)

John 2 Nov 94

NO CHARGES -
THANKS 2 NOV 94

(112)

Wednesday, 2 Nov 94

(113)

1000 - Moved to 04-017PS (in street behind new firehouse)

1006 - Drilling of street begun. Env patch required.

1018 - Spoon into ASPHALT HOLE

1019 - PID of hole @ Surface - 1' = 0.0 ppm

PID of spoon cap @ Surface - 1' = 0.0 ppm

1024 - PID of hole @ $\frac{1'-3'}{1'-3'}$ = 0.0 ppm

1027 - Recalibrated PID Serial # NA890204

w/ 100 ppm isobutylene, nonuf: 12/93

1029 - PID of hole @ 3'-5' = 0.0 ppm

PID of spoon cap @ 3'-5' = 0.0 ppm

Ver PID in exhaust - OK

1053 - PID of PVC pipe after bailing

= 17.1 ppm

1059 - Site breakdown & patching of Street

1117 - Back @ 04-017PS w/ Craig. He is

Sealing this hole with granular bentonite

with a cold asphalt cap.

1200 - Lunch

1315 - To hotel to pick up charges

1320 - To Site 04-024PS. Moved

Flag out of ditch (due to water)

NO CHIRP
2 Nov 94

Wednesday, 2 Nov 94 115

1325 - PID is dead - erratic numbers.
2nd PID is not charged. Used generator
on rig to charge.
1345 - PID of hole @ 1'-3' = 4.1 ppm
PID of Spoon cap @ 1'-3' = 4.6 ppm
1356 - PID of hole @ 3'-5' = 0.4 ppm
PID of Spoon cap @ 3'-5' = 0.6 ppm
1425 - Site Breakdown
1430 - moved to Site 04-031RS
PID of ^{hole} tag from Surt-1' = 2.1 ppm
PID of Spoon cap @ Surface-1' = 5.9 ppm
Ambient Air = 0.0 ppm
1447 - PID of hole @ 1'-3' = 3.2 ppm
PID of Spoon @ 1'-3' = 9.7 ppm
Ambient Air = 0.4 ppm
1453 - PID of hole @ 5'-7' = 2.3 ppm
PID of Spoon cap @ 5'-7' = 5.1 ppm
Ambient Air = 0.7 ppm
1510 - PVC put in place for H₂O Sample
1515 - Water level: 9.5' to Water
Well 14.93 deep. Casing to ground = 3.6
∴ 5.9' BLS
1520 - Site Breakdown
1525 - TO Decon Pad
Atchafalaya 7.11.94

Atchafalaya
NO CEMEX
2 Nov 94

1540 - Moved to [04-032PS]. Site Setup
PID warned. Ambient Air = 0.6 ppm
1544 - PID of hole @ Surf - 1' = 2.2 ppm
PID of spoon cap @ Surface - 1' = 0.7 ppm
1549 - PID of hole @ 1'-3' = 3.3 ppm
PID of spoon cap @ 1'-3' = 3.1 ppm
1555 - PID of hole @ 5'-7' = 3.0 ppm
PID of spoon cap @ 5'-7' = NO RECOVERY
1608 - 8.2' to top of casing
Casing = 2.6' long (to LS)
∴ Water is 5.6' BLS
1616 - Site Back down.
1623 - At Decor Pad.
1630 - Traveled to 2 sites to water hole
abandonment.
1700 - Depart for hotel

WEST 1700

No further work
1600 2 Nov 94

WX: SN: 0642 SS: 1642
 Partly cloudy high in 60's
 S winds 10-15 mph
 Rain tonight (7090)
 Rain tomorrow (8090)

0600 - ON SITE @ Decon Pad

0630 - Reseptive blanks taken (QA/QC Samples)

0645 - Calibrated PID, Serial # NA890204
 with 100 ppm isobutylene (12/93). PID
 Calibrated O.K.

0657 - Health & Safety Briefing

ATTENDEES: MARK, AUSTIN, JEFF, CRAIG,
 + Brian

Subjects: All V list items. Special emphasis
 on PPE. Must wear all PPE on base at
 all times.

0705 - Stopped by CSC to ✓ on flying sled
 today. KC-135's due at @:

0830	-	TAIL 0130	Spot 6
0900	-	Tail 3500	South dock
0945	-	Tail 0248	Spot 4

Due back @ 1200 + 1315

0710 - Moved out to site

04-033PS

808P
 846P
 CONVEN

ATG/Inch

21/11/94

No chemical analysis

(120)

~~NO ENTITIES
3 NOV 94~~

THURSDAY 3 NOV 94

(121)

0714- PID warmed - Ambient air = 0.0 ppm. Winds calm; Hi overcast; temp in lower SO₂. Nice morning! LEL in place - normal.

0716- PID of hole @ Surface - 1' = 0.0 ppm
PID of spoon cap @ Surface - 1' = 0.0 ppm

0721- PID of hole @ 1'-3' = 0.0 ppm

PID of spoon cap @ 1'-3' = 0.0 ppm

0728- PID of hole @ 3'-5' = 0.0 ppm

PID of spoon cap @ 3'-5' = 0.0 ppm

0743- Recalibrated PID Saria # NA890204 with 100 ppm isobutylene (manuf 12/93). PID O.K.

0745- Breeze has started. From South @ 10 mph. Evac plan changed.

0750- Site Breeze down.

0755 - moved to Site 04-034PS

- STREET LOCATION IN FRONT OF ARMORY

AMBIENT AIR = 0.0 ppm

0810 - Established exclusion zone to alleviate foot traffic thru site

0819 - Brian completed drilling thru asphalt

LAST ITEM

~~STATION 3 NOV 94~~

no samples taken on Thursday

0754 - SITE BREAKDOWN. ANDREW + COLANGE
Recorded water level. GC water sample
taken.

CARRIED FROM PREVIOUS PAGE

0821 - FIRST SPOON IN - HAMMERED IN
0823 - PID of hole @ SURF - 1' = 0.0ppm
PID of spoon cap @ SURF - 1' = 0.0ppm
Ved PID in exhaust - reading OK
0826 - PID of hole @ 1'-3' = 0.0ppm
PID of spoon cap @ 1'-3' = 0.0ppm
0836 - PID of hole @ 3'-5' = 0.0ppm
PID of spoon cap @ 3'-5' = 0.0ppm
Ambient Air = 0.0ppm
0851 - PID of hole @ 5'-7' = 0.0ppm

Note: Spoom is wet.

PID of spoon cap @ 5'-7' = 0.0ppm
0900 - Water level = 6.6' BLS
0910 - Site Breakdown + Decom
0915 - Coordinated w/ Sgt Stone
Warner from Comm Sq + with
Aircraft Maintenance Control. Site

04-037PS is clear.

0920 - Moved onto site
0925 - Brian arrived on site.

At 11.1.1.1. - 7 min 44'

NO CONTINUED WORK 3 NOV 94

- 0932 - PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cap @ Surface-1' = 0.0 ppm
0936 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
Note: Ved PID with Tedlar bag of
100 ppm isobutylene. Read 100 ppm-DK.
0944 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
Spoon is wet.
0947 - PVC replaced. Jw
0949 - Water level: 8.55' Above AT Casing
Top
Well is 9.65' deep
3.4' from casing to ground level
•• Water is 5.15' BLS
0950 - LEL + PID secured.
1000 - Site Breakdown + Delon
1005 - moved onto site 04-036PS
1015 - Rig set up. LEL in place.
PID warmed up. Ambient air = 0.0 ppm
1018 - PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cap @ Surface-1' = 0.0 ppm
1021 - PID of hole @ Surface-1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1029 - PVC replaced

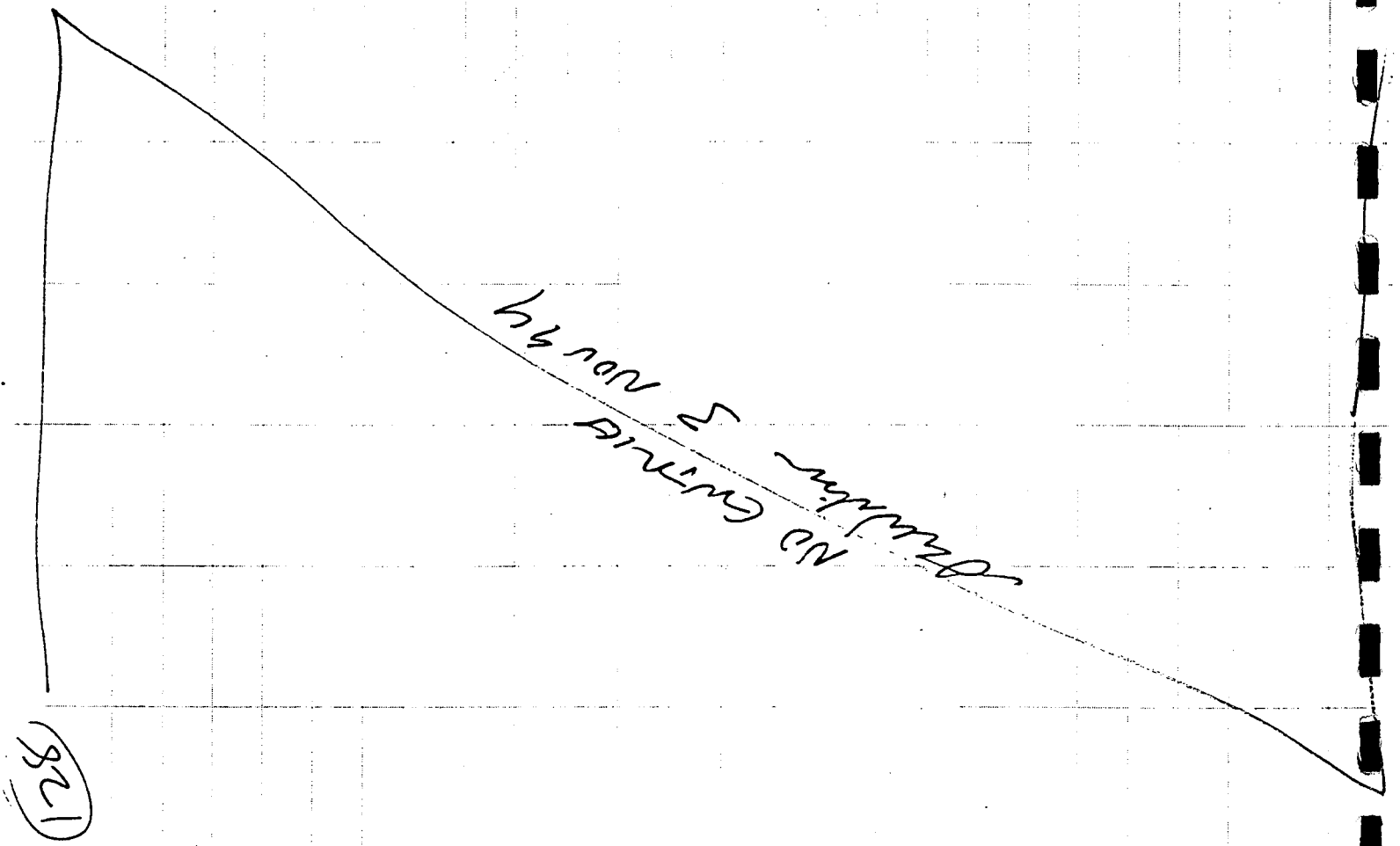
(120)

THURSDAY, 3 NOV 84 1207

1040- Water level: 7.44' from top of casing. Bottom @ 9.7' " " new casing = 4.4' ALS.
∴ Water = 3.04' BLS
1045- Site Breakdown + Decon
1115~~PM~~^{AM} - Returned to clinic.
1130- moved to 04-001PZ to sample
DID upon opening: 0.0 ppm
Decanned tape for H₂O. Level = 7.9' below casing. Bottom = 14.7' below casing. Casing = 1.2' from ground
∴ Water = 6.7' BLS
1201- Sampling complete.
1210- LUNCH
1310- Back @ clinic. Plan it to resample specific points due to lab screw-up. Need GND/DRO samples at specific interval at selected sites
1311- WX: NOAA wx Broadcast - 40% chance of showers. High in mid-Sky overcast. Wind from South @ 10 mph
1312- ON SITE @ 04-020 ^{ASTO} resamp
Due to Lab screw-up, we must resamp #520, 23, 27, + 28.

THURSDAY 3 NOV 84

NO GND/DRO samples
THURSDAY 3 NOV 84



NO GROUND AIRING
THANKS 2 NOV 94

SPECIFIC REARRANGING REQUIREMENTS ARE:

✓ 04-020PS 1'-3' + ~~3'-5'~~ 5'-7'
✓ 04-023PS 1'-3' ~~4'-5'~~ 3'-5' ms/mcs
+ 5'-7'

04-027PS 5'-7'

04-028PS 1'-3' + 5'-7'

1336 - Recalibrated PID # NA890204 with

100ppm isobutylene, Lot 12/93. PID O.K.

1337 - PID of Sleeve from 5'-7' = 121ppm

1340 - Moved to 04-023PS for

resampling.

1359 - PID of hole @ 1'-3' = ϕ . ppm

1404 - Few drops of raindrops fell - dark

1408 - PID of hole @ 3'-5' = ϕ . ppm

1416 - PID of hole @ 5'-7' = ϕ . ppm

Site Breake down + Below

1433 - ON site @ 04-027PS for

resampling.

WX - getting darker from the north + west.

Breeze is steady, from the south. Rain

is beginning to fall @ 1423L

1448 - PID of hole @ 5'-7' = 0.0 ppm

PID of hole @ 1'-3' = 0.0 ppm

(V = Done)

1450 - Off to decon; then to site
[04-028PS] for resampling.
WX NOTE: rain has stopped.
1507 - PID of hole @ 1'-3' = 32.1 ppm
Ambient air = 0.0 ppm
1512 - PID of hole @ 5'-7' = 874 ppm
1514 - SPOON has dark gasoline-soaked
soil in it.
1520 - Breakdown of sampling tables
& Shellen Decon
1544 - ON SITE @ [04-002PZ] to
Sample.
1554 - PID of PZ upon opening: 0.0 ppm
Water: 7.55' Below casing top.
Casing = 1'; ∴ Water is 6.55' BLS
9.5' from top of casing to top of mud
1615 - Sampling complete.
1616 - ATHA of 04-033PS @ 1'-3'
= 0.6 ppm
1624 - PID of [04-003PZ] upon
opening = 1,265 ppm
Water = 4.75' Below casing.
Casing = 3'; ∴ Water = 4.45' BLS
Depth = 15'

Agustin RANU GU

no entries
3 Nov 94

133

THURSDAY, 3 NOV 54

134

1645 - Stopped by Fire Department
+ told to move out of area,
due to arriving KC-135. Aircraft
was on the ground + taxiing to
ramp area. We vacated quickly.
1649 - Returned to Dean Pad.
Coolers offloaded from van for
shipment preparation.
1700 - Off Base to hotel to
prepare COC + samples for
shipment.

NO SHIPMENT
3 NOV 54

1 item

THURSDAY, 3 NOV 54

No cultures in Nov 99
 Drunk in Nov 99

WX: Cloudy + Foggy with Drizzle
 Full Rain after 0900 - 8050
 Chance of Thunderstorm today
 High in Mid 50's; Winds N/NE @ 10 mph
 Sunrise: 0630 Sunset: 1640
 - Stationary front overhead. Rain all day
 0615 - ON SITE @ Decon pad
 0625 - Drillers arrive from OSI:
 Scott Borlick + Tim Celichowski
 They have all OSHA-required training
 - Certificates of training + physicals
 presented.
 - Tim is CPR / First aid trained
 0640 - Health + Safety Briefing
 Attendees: Jeff, Brian, Craig, Mark, Andrew,
 Scott, + Tim
 Subject: All v list items in depth
 WX emphasized
 0650 - Crew split up. Drillers building
 decon pad. Brian packing for departure
 Craig to plug holes; Andrew + Jeff to
 start monitoring wells (+ clear them);
 Mark is inventorying supplies
 0712 - Stopped by CSC to v flying sked

No further work
Thursday 4 Nov 94

Flying Skel is: 0830 + 0900 +
ONE > 1600. Return @ 1130-1200
0720 - Walked back to Decon Pad
0725 - Calibrated PID sensor &
NA930182 w/100 ppm isobutylene,
manufactured 12/93. PID is reading 0.1.
Mark calibrated LEL.
0810 - Construction/Packing at
Decon Pad is continuing.
NOTE: Good source for Safety equipment
is Lincoln Contractors Supply on
Lincoln Street here in Milwaukee.
0811 - Heavy Rain has started to fall.
Drillers don't have 2" brass sleeves. Are
calling shop to get some from phone @
Dispenary.
0812 - Jeff told me bare safety NCO
Complemented Optech on wear of safety
gear. Hare Seemany Company's work on
base without wearing gear - has had to remind
contractors to wear safety gear.
0850 - Moved to site of MW-01
E61 Protection will be required by the
diesel rig.

(104)

FRIDAY, 4 NOV 94

(140)

0855 - Rig set up on site. L&C in place + PID operational.
0920 - PID of hole @ 2'-4" = 0.0, ~~WX~~ steady drizzle
0926 - PID of Spoon cup @ 4'-6" = 0.1
Blow count: ~~Ans~~ 32/2/2 @ 4'-6"

1000 - Drilling, continues. Only taking samples for GC. Andrew is logging.

1035 - Off site to get supplies

1235 - Back on site. Drillers are at lunch (just left) 04-004MW

1400 - Drillers on site, having waited for supply truck to arrive.

1406 - Setting, screened in 04-004MW

1434 - "Ron" from OSI Environmental on site to V on progress.

1436 - "Ron" departed.

1443 - Well setting complete. Will be moving to 04-001MW.

1450 - DN site @ 04-001MW

Lt Drizzle

1530 - Well setting continuing

WX: Heavy Drizzle; Temp in 40's; Very light breeze

Madan J. S.

4 Nov 94

no entries
Driller

(141)

FRIDAY, 4 Nov 94

(142)

1531- About 30 minutes ago, Jeff briefed crew that all wells will be above ground, with heights of ground parts not to exceed 3' AGL. This is a result of discussion w/ Ruth Hadden/ANMC and Capt Wickman, CE SQDN.

1539- Decision has been made by Jeff not to drill a 3rd well today. Decon requirements & lack of daylight drive the decision. Drillers will clear site now, decon, & depart.

1543 - Site 04-001MW cleaned. Barrels secured with bolted rings.

1615 - To Decon Pub. Watched

Drillers clear rig, parts, & all augers.

LAST ENTRY

No entries by new guy

4 Nov 94

(143)

SATURDAY, 5 NOV 94

NO WORK - UTA weekend
at Base

SUNDAY, 6 NOV 94

NO WORK - UTA weekend
at Base

✓ VHS Tapes

STANLEY 6 NOV 94

(144)

MONDAY, NOV 7, 1994

SUNRISE

WX: 6:34 AM / SUNSET: 4:37 PM

FORECAST: Partly Cloudy + Breezy

Hij - mid 50's

S Winds 15-25 mph

0621 - Calibrated PID #NA930182 with

100ppm isobutylene (12/93)

0627 - Calibrated LEL with 25% hexane.

Serial # 6553. Hexane: 06/94.

0633 - On site @ 04-005MW

0635 - Health + Safety Briefing

Attendees: Scott, Tim, Jeff, + Steve

SUBJECTS: All visit items

0644 - LEL in place / P.D. warned + ready

Ambient Air: 2.2 ppm (located next to PDL area)

0647 - Kathleen arrived on site

0650 - HVS Briefing for Kathleen + Made

SUBJECTS: All visit items (in depth for Kathleen)

0659 - Ambient Air = 3.7 ppm. Much exhaust.

0713 - 35, 8, 12 - Blow count on 5'-7'

P.D. of Spoon cap @ 5'-7' = 5.5 ppm

Ambient air = 4.5 ppm ± 1.0 ppm

At 11:11 - al. -

(143) 7 NOV 1994

0718 - PID of mud on auger coming out of hole @ 12' = 12.5 ppm

Ambient air = 4.5 ppm \therefore 8.0 ppm

Can smell mud.

0722 - 33, 6, 10 - Blow count @ 10' - 12'

0723 - PID of spoon cap @ 10' - 12' = 10.8 ppm

Ambient air = 4.5 ppm \therefore 6.3 ppm

0727 - Recalibrated PID, Serial #

WA 930182 w/ 100 ppm isobutylene (12/93)

Calibrated 1/2 block away from site in

clean air.

0821 - Stopped by CSC to ✓ on aircraft

flying. No flying today.

0900 - Water hose leak in hangar - Hol Gonszo (Maint SQ CC) helped get access to hangar. Water leak minimized. We can have H₂O access all day. He is planning to leave @ 1500, but will ✓ with us.

0910 - Decon in progress.

0911 - met Ron Davis, Supervisor of drill crew. He signed Health & Safety form.

0930 - Tried to move to 04-002mw.

Ric stuck on side of hill.

Monday, 7 Nov 94

1030 - Ric on site @ [04-002mw]

1035 - Guided Support truck to site

1043 - LEL in place / PID warned.

1044 - First layer into ground.

1045 - PID reads "Lo But"

1047 - PID of spoon cap @ 1' - 3' = 0.0 ppm

1100 - Called by SP Boundary Patrol & talk to CSC. Traveled to CSC & talk w/ Sgt Warner. Concern about on 50' distance from KC-135. We will comply.

1120 - On site @ 04-002mw. Met w/ coming down.

1125 - Briefed whole crew on flightline driving restrictions

1130 - Site breakdown

1145 - Escorted drillers around runway & did extensive FOD ✓ + Cleanup

1200 - Lunch

1300 - On site at 04-001mw. Drillers are digging holes for guard posts & setting forms for ped.

1328 - On site @ [04-003mw]. Rig

in place.

1357 - 224 Blow count ~~355~~ 557

MONDAY, 4 NOV 94

Blow count: 3, 6, 7, 9 @ 10'-12'
DID at spoon cut @ 10'-12' = 1,950 ppm

MISCELLANEOUS DATA

152

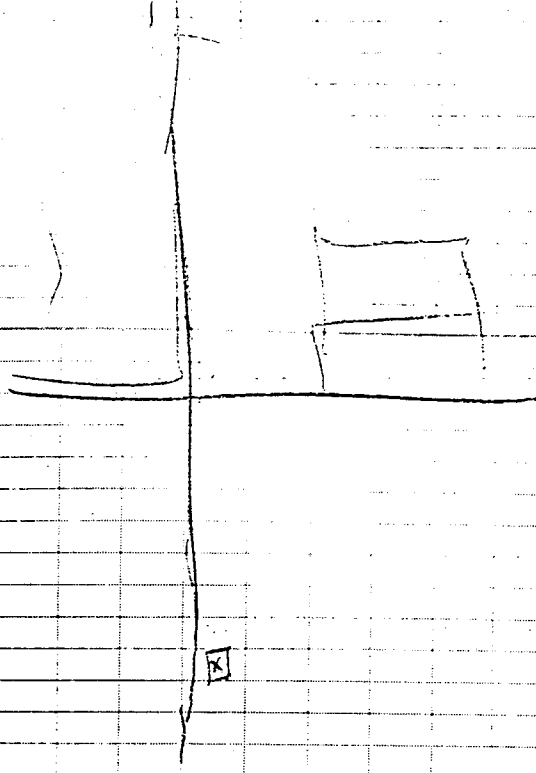
LOT

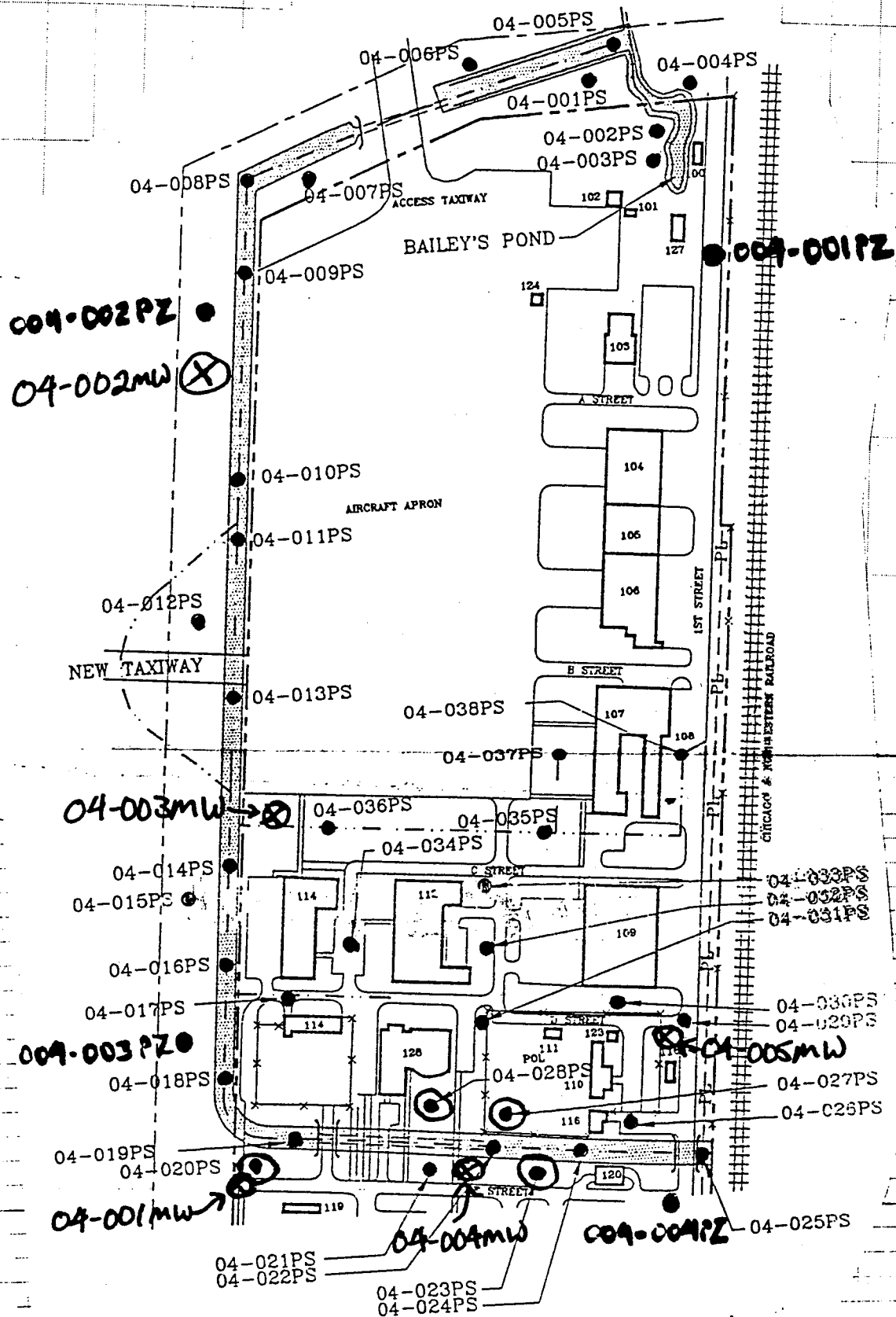
• Bassier - 2 gal

• clear tape

- x2

- x4





STRATAPROBE DEPTH: 10 FT

- 2 SOIL SAMPLES EA
- 1 WATER SAMPLE

PIEZOMETER DEPTH: 16 FT

- 2 SOIL SAMPLES EA
- 1 WATER SAMPLE

Resample spots

154

TAILGATE BRIEFING

DAY'S TASKS

POTENTIAL HAZARDS

ALL SWITCHES

EXPOSURE PATHWAYS

SKIN

EYES

INGESTION

NOSE

○ TODAY'S WEATHER

○ EVACUATION PLAN

○ LOCATION OF SAFETY EQUIPMENT

○ ANY QUESTIONS OR COMMENTS?

○ WORK SAFE!

Let it rain!

LEAD/6010/GFAA

PAH/8310

VOC/8020

Outdoor writing products . . . for outdoor writing people.

ALL-WEATHER WRITING PAPER

ROUND BOOKS

NOTEBOOKS

SPIRAL NOTEBOOKS

LOOSE LEAF SHEETS

MEMO BOOKS

ALL-WEATHER PEN

RING BINDERS

SPIRALS

METRIC

14 13 12 11 10 9 8 7 6 5 4 3 2 1

IF YOU KNOW EXACTLY BY

LENGTH

inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
kilometers	1.093	yards
	0.621	miles

WEIGHT

ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds

VOLUME

fluid ounces	29.573	milliliters
gallons (U.S.)	0.125	liters
liters	0.946	gallons (U.S.)
fluid ounces	3.785	liters
gallons (U.S.)	0.033	fluid ounces
liters	1.056	gallons (U.S.)
gallons (U.S.)	0.264	liters

CONVERSION TABLE

Decimals

of 100

Milli-meters

1.5875
3.1750
4.7625
6.3500
7.9350

9.5250

12.700

15.875

19.050

22.225

25.400

50.800

76.200

101.60

127.00

152.40

177.80

203.20

228.60

254.00

279.40

304.80

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

DATE OF DECLASSIFICATION

Name Joe Byrd, JR
Project Scientist
Address 4100 NW Loop 410, #230
SAN Antonio, TX 78229
Phone (210) 731-0000

Billy Mitchell 1315-139

TRAVEL DAY

19 Dec 1994

(57)

leave home

000

5/17/1

At hotel

Go to store 4-20-20

SA17dbs

157

七十八

Dove for day

17,8

82

9.8

9/8/85

①

DAY 1

②

Tuesday 20 December 1994

- 0624 Load van & car. (Big Box & drums)
0652 Leave hotel
0654 Breakfast. (0.8)
0742 Done w/ Brief
0746 On Base get parking permit
0800 At CE(?) to meet w/
Base personnel concerning
field work.
0824 Henkman shows. OK's
every thing
0830 ~~AKM~~ has to use phone
waiting
New load Van @ store room
0858 Go to hotel to get other
drum
0912 Back on base.
Go to get keys to our
UNHEATED room.
0930 Set up Decon Area Decon
Equipment. ~~There is A~~
~~HEATER~~
1040 Done & ready for P & Sampling

JB

③

20 Dec 94

④

1041 HYDAC is not working.
RC & KM are working on it.

1057 Ready

1100 AT 04-005 MW

1148 Done. Go to Decon Area
to prep for next well.

1210 AT 04-004 MW

1240 Done. Go to Decon Area.

1259 Done. Go to 04-001 MW

Purge & Sample

1337 Done. Go to Decon Area

1354 Done. Go to 04-002 MW
out on AFRON.

1455 Done. Go to Decon Area.

1515 Done Go to 04-003 MW.

Last well. heml C hear.

1600

Done Sampling

Go to Decon Area.

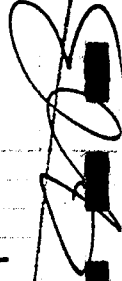
Bakers with not clean

Dispose of them.

Label drum. Secure them.

KM, RC do QA/QC

samples.



5

20 DEC 17

6

1652 heavy base
1700 cat hotel

17.0
7.2
9.8

9.8 hr

48/11/17

W H Y L

Wednesday 21 Dec 94

0742 leave hotel
Go to store to get
shipping materials.

0800 On Base. Meet w/ Lt.
Huelsman. Advise him that
we should be off base
by 09:00-0930.

0815 Go to Fire Dept. to get
key to store room

0819 At store room

0900 Done. Go to FD. to return
key.

0910 Leave base. Go to
Burlington Express to
drop-off boxes
Back at Hotel.

1430 At hotel Airport ^{9.6} 7.7

1.9
8.0
9.9

2230 Home }

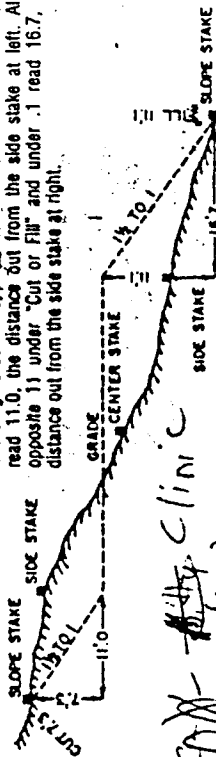
9.9 hrs

ABoulton

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below, opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



FAX- (414) 747-4495 OSN 580-8495 (4495?)

		Distance out from Side or Shoulder Stake											
0	1	0	1	2	3	4	5	6	7	8	9	0	1
		0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4		
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.3	3.5
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.6	4.8	5.0
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	6.1	6.3	6.5
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	7.6	7.8	8.0
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	9.1	9.3	9.5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	10.6	10.8	11.0
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	12.1	12.3	12.5
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	13.6	13.8	14.0
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	15.1	15.3	15.5
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	16.6	16.8	17.0
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	18.1	18.3	18.5
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	19.6	19.8	20.0
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	21.1	21.3	21.5
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	22.6	22.8	23.0
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	24.1	24.3	24.5
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	25.6	25.8	26.0
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	27.1	27.3	27.5
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	28.6	28.8	29.0
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	30.1	30.3	30.5
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	31.6	31.8	32.0
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	33.1	33.3	33.5
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	34.6	34.8	35.0
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	36.1	36.3	36.5
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	37.6	37.8	38.0
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	39.1	39.3	39.5
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	40.6	40.8	41.0
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	42.1	42.3	42.5
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	43.6	43.8	44.0
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	45.1	45.3	45.5
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	46.6	46.8	47.0
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	48.1	48.3	48.5
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	49.6	49.8	50.0
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	51.1	51.3	51.5
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	52.6	52.8	53.0
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	54.1	54.3	54.5
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	55.6	55.8	56.0
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	57.1	57.3	57.5
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	58.6	58.8	59.0
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	60.1	60.3	60.5
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	61.6	61.8	62.0

2236
 Sentry Products 781-2000-1000
 Fax 781-2343 Told at Jim.
 Jeff 4300
 Robin 4200
 Kathleen 4200 14338
 Steve 4228
 LTRHuelsman - Bone - 462-2920
 Beth (908) 532-2658
 Andrew 4107
 Paring Name Jeffrey C. B/UNT
 Optech
 Address 4100 N.W. Corp 410
 San Antonio, TX 78229
 Phone (210) 731-0000
 Tuerhe Landscapers 764-4340 Canyon Canyon
 Project Gen. Billy Mitchell Field, WA
 SI for IAP No. 4.
 128th Air Refueling Group
 1315-139
 OSI Environmental (414) 351-8020
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② Thursday 6 Oct 94

- (1) Suni green ~ 30 Black
- (1) cooler liner
- bubble pack

5-gallon DI water

Blue Tote

- (2) boxes aluminum foil
- (4) 1/4 latex gloves

type gun

CO₂ pump

- (1) lamp box quartz-egg

bagged

trash bags

- (1) mercury thermometer

Calibration solution

conductivity

pH 7

pH 4

pH 10

100' engineer tape

- (2) gun powder

1/4 roll green tongs

- (2) 1/2 roll Teflon tape

John RB

17 Oct 94 - Monday
Travel Day to site. No
work performed - tomorrow will
be the first day on site

2/23

Jeffrey RB

④

18 Oct 94 Tuesday
0830 met w/ LT, Huebsman, discussed
project activities, cdr and CF
coordination.

0930 met w/ CPT Wickman, CB
left, - picked up site maps -
1015 conducted site walk over.
w/ LT Huebsman.

call Airport (Country Engineer) prior
to driving on Airport (civilian)
land.

1130 start sampling in NW corner
of the base (preferably in the
Philips Road Area) - finish it
up before rain begins.

1430-1500 Starting boring sites w/
John, Kathleen, Ruth Collier (ANRC),
CT. Huebsman, Bill Halberg (HAWREP),
+ Curtis Nichols (Weston - representing
ANACOL).

[Signature]

[Signature]

⑤

19 Oct 94 Wednesday Billy Mitchell
0600 contacted Hot Dog 800 number -
they have cleared us to deploy
Monday at 0700.

0700-0820 - met w/ Strataprobe
people to discuss strategy
for the project.

0820-0930 picking up +
preparing equipment etc -
0930 Officers (stratoprobe) do
not yet have their equipment -
they will meet us at 1030
for departure to the site.

Also, the utilities people will
meet us on Monday at 0930
at the ground sheet to locate
utilities off the NW property.
Coordination also given -

1030 hrs - went to lobby to meet TFR/
Target (Strataprobe) crew. Up tech
employees are checking equipment
and loading the Van and car.

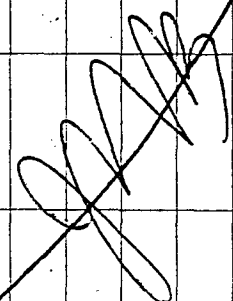

1040-1230 Equipment procurement
(Officers) and sample bottle
labeling and organization

[Signature]

1316-139

Wednesday, 14 Oct 94 B. Mitchell

1320 Met w/ ANGLER rep. and HAZWOP Auditor
1330 piezometer staking, setting up decon station, marking site maps w/ PZ and SOD locations - to be sent to CFC (CPT Wickman) to be cleared for utilities.
1600 Shored sample sites to TLE personnel & discussed sampling & deconning strategies.
1705 left base
1720 returned to motel.

1315-139

Thursday, 20 Oct '95 B. Mitchell

Day 4.
Use of plastic decon traps.
Alternative lubricant for Strataglobe.
-gator.
1800 Arrived on base.
0730 Conducted Tailgate Briefing, to include HTHA Safety Briefing and a POC briefing.
0800 Decon procedures have been delayed as the generator proved by TEC is not functioning. Attempting to obtain alternate power source.
0855 Alternate power source procured (6000W).
1000 Decon has been completed.
1020 Moving to first site (C0315).
1050 Site set up. Decon Area set up on plastic lining, in the back of a pickup truck. Bass Steers + Split spoons undergoing hard decontamination. Moderate but steady wind blowing west to east.

1317-139

⑧

Thursday 20 Oct '95

B. Mitchell

1115 For the first time ^{7th} pointing Mark. Eschen will assist the Geologist, until he must do a GC run

- We will ensure that doors on east wing are closed at all times when near the flight apertures to prevent accidental POD from objects which may fall out of or be blown out of the van.

1130 Paving operations begin.

1250 During water sampling at the first point, the well (hole) dried up. Recharge time is expected to be lengthy due to the clay soil. We will break for lunch & allow recharge.

1330 well Recharged - Sampling proceeds.

1400-1430 Lunch

1430 move to second site to decontaminate the stratigraphic.

~~1430~~

⑨

Friday, 20 October 1995

B. Mitchell

1445 Begin operations at site 002PS, 1530 having problems drawing water out of the hole due to high levels of silt / sand (clogging tubes).

1600 Phone call w/ John Morris. He says we can hold samples on site (cool) for up to 24 hrs.

Therefore we can sample Saturday, send them to the delivery service Sunday (24 hrs later), and have them at the lab on Monday morning.

1650 In a final attempt to draw water from 002PS, we will install piezometer screening tubes and allow it to fill (approved by Program Manager, Haverhill, and ARAC project manager). Target will provide extra screening for free.

1710 We will have to wait for an adequate quantity of water to enter the hole.

~~1710~~

⑩ Thursday 20 Oct '94 B. Mitchell
Therefore, we will not be
able to complete sampling
at this point until tomorrow
morning.

1745 Sample trip blank was locked
in the lab when personnel departed.
We will hold samples in our
custody + keep well iced
+ ship first thing in the morning
(prior to 24 hr limit) which
will occur at 12 pm
tomorrow. This was cleared
with the OPTech Project
Manager.

~~JCB~~

~~WV~~

Friday 21 Oct '94

B. Mitchell

0600-0700 Planning meeting.

Field blanks (144) - 7 deionized + 7 potable

water - As per AAREC Project Mgr.

Do blanks first

0700 Fall gate briefing w/
Health and Safety briefing and
FOD briefing.

- Today we will finish sampling
002 AS (water sample) then
go to the 3rd sample at Bailey's
Pond (Murch) (003 AS).

0725 Observing decon procedures,
Chads put on a rack + cleaned
w/ 60% nitrox water, water, and
steam. - Same procedure will
be followed for the duration
of the project.

0800 Set up time at site (pond).

- We will page re. 002 AS

order to sampling, allow it

to recharge, then collect

our groundwater sample

from this point + as requested

by AAREC Project Mgr.

JCB

(12) Friday, 21 Oct 94
Day 5

R. Mitchell
1315-137

0800 002PS will be purged while work on 001PS begins. Ambient Air PDA readings negative.
1100 work done on 001PS except groundwater sample. Groundwater sampling on 002PS was completed.
Decanning Rigt equipment.
1200-1245 Lunch break.
1245 Taking QA/QC samples (field equipment blanks, bottled DI water samples etc).
1320 Working at site 006PS. (4-2 ft. Sargassum spoon filled).
Ambient Air PDA readings, LEL readings are 5/11/720.
1330 Took 13' Sample from 006PS. Ambient Air readings continue to read 0.0 + 0.6 PS (11 + LEL) but there is a distinct odor (sulfur gas). This

~~Self 1st~~

(13) Friday, 21 Oct 94
SNE 11 has been present since she arrived.

R. Mitchell

1435 Site sampling (04-006PS) is complete.
1445 Observing decompression (as per page 11).
1505 Decon complete - moving to point 04-005PS.
1600 Sol sampling on 04-005PS completed. Not enough water for a water sample. We left piezometer tubing in the well and will attempt to sample ground water on Monday. Both this hole and hole 04-001PS (same situation) were covered & sealed to prevent contamination of the groundwater through the hole. A ^{thin} abandonable seal was placed around the piezometer tube to prevent entry of contaminants around the tube.
1620 Moving to decon area

~~Self 1st~~

Friday 21 Oct 94 B. Mitchell
to perform final sig.
decontamination.

650 Decon complete. Performing ATAC
on samples. Filling out and
CAC's, etc.

1830 Turned over samples to
Fedex + returned to Motel.

B. Mitchell

Monday, 24 Oct '94 B. Mitchell
- Meet w/ CPT Wickman
- meet utils. at 0930

- Copy site map

0804 Arrived on site

0710 Conducted H1N1 Safety Briefing
to include FOD briefing / Conducted
by Steve Wilson, the new
Health + Safety Officer.

0726 Observing decon procedures
as per page 11.

0820 Met w/ Lt. Frelsman -

he notified security that we
will be working along the
Huron + taxiways. He will also
notify the civilian air port
security.

0835 called J. Morris, OOTEC H +
left a message

0845 called Ruth Loder, AMREL -
left a status of project
message on her machine.

0900 Met w/ CPT Wickman
reference utilities on
base. She will have a U

B. Mitchell

(16)

Monday, 24 Oct '94

B. Mitchell

of our points cleaned by the end of the day.

0916 Arrived on site to find Stratoprobe ^{1000 ft} is stuck in the swamp. Apparently it got stuck around 0845.

0930 Gordie Austin ATFT clear
Jim Modjewski West Shore probe
Richard Mottel City of Mil.
Kent Gross Wisconsin Electric

Jerman Jerez SMP - Gas
1020 Completed Trench of past w/ civilian utilities personnel - Mr. Jerez of SMP (Gas) will

have to return tomorrow to complete checking points on the South side of the base. All other utilities have cleaned our points as marked (flagged).

1036 Returned to site. Neither of the holes set last week produced enough water to take a full suite of samples (VOTs only).

Jeff Cass

(17)

Monday, 24 Oct '94

B. Mitchell

1040 Stratoprobe is out of the mud / Swamp, but is too dirty to go on. Munny area and has been taken to be cleaned.
1048 Stratoprobe has arrived.
0555 Setting up at pt. 04-007PS.

1145 on hole 007 we had less than 1 brass sleeve full of soil. Therefore we will try again at 7-9 ft.

1200 NO recovery at 7-9 ft. We will try again at ~~7-9~~ 5-7' within 1 ft. of original. If this does not work we will not draw a second sample at this point.

1220 We only recovered / sleeve at 5-7 ft. in this new point. So we ~~set~~ took 9A + LEAD + ~~007~~ 6-10 samples - not enough sample for 9A + VOC.

1240 Sink hole to 10-12'. Minimal soil recovery, but we are in ground water. We

Jeff Cass

Monday - 24 Oct '94

B. Mitchell

will let the hole charge +

take the sample after lunch.

250 Becking down at Site 007 -

preparing to go to lunch.

1348 - 1358 072 - called John

moon's. He indicated that

we should take a sample

at 8-10' rather than

10-12', then punch a hole

to 15' in order to get

more water.

1415 Site 007 has only recharged

to a depth of about 1.5 feet.

We will now move to point

4-008PS + poke a hole. We will

attempt to resample site 007

later in the day.

1420 Sampling work begins.

1500 Soil sampling done, Piezometer

tube installed, must wait for

recharge. We will move to

Site 04-009PS + ~~parcels~~

and conduct soil sampling

+ drive hole to 15' depth.

Jeffrey

Monday - 24 Oct '94

B. Mitchell

We will attempt to sample

later in the day or tomorrow.

1550 Decan of Rig A Peds have

been completed - moving to

Site 04-009SP.

1640 Attempted to collect an

MS (MSD) sample for the

2nd time today. No recovery

(using 3-5" CLS).

1730 Soil samples taken

Piezometer tube installed

for sampling tomorrow.

1738 - Observing decon

procedures

1750 Ambient Marc Return to hotel

to do CoC's + drop off samples at FedEx.

1808 Decon completed +

equipment stored away.

Departing site.

Jeffrey

(20)

Tuesday 25 Oct 94 P. Mitchell
QA/QC - Ruth Ladder - not in (withstand).
O700 arrived at site.

- we will take QA/QC samples after lunch rather than in the morning as we are short of bottles for water analysis for lead. We will sample wells 007-009 for water first. 0710 observing decon + set up procedures.
0715 failgate briefing to include H4th, safety + FOD briefing.

0800 Left another message for Ruth Ladder, AMREC - I will call back later.
0815 Called CPT Wickman - CE has not yet cleared our points in the built up area of the bases. They should be done by 10.05.11 am today. I will check back later.

C. L. H. (signature)

Thursday 25 Oct 1994 8.11.11
Dry 2 1315-1339

0855 Filled VOA3 + 1/2 liter from 007. Well ran dry - will have to return later.
0900 Prepping to sample 008. We can not get to 009, 010, etc. at this time due to security restraint.
0905 Cleared to work near apron until 1030 hrs.
0925 Still 008 only yielded 12oz (enough for VOA3 only). We will attempt to collect more later (recharge is slow). Moving to site OOPPS to collect water samples.

0958 Filled 3 VOA3 + 9AH before we'll went dry. We will move to Pt. 10 - Cancel that - We must be away from the Apron by 1030 - we want have enough time to set up, sample clear in 1/2 hour.

1010 Talked w/ CPT Wickman. She has not yet cleared us

(signature)

22 Wednesday, 25 Oct '94 B. Mitchell
to Wake on the North End at
the base. 11:00 PM

1017 Called SMP Gas. Mr. Perez
was called away on a "emergency"
call. Therefore we don't have
cleanance from them either.
He will page me when he
returns. Kenner has gone
to the Motel to check on the
federal package w/ our water
lead bottles (sample bottles
sent originally did not have
any preservative). We
will do QA/QC for
water if they are available
to utilize the time until
we are cleared to work
along the Apoy again.
1030 Called Son of Western
Bell to unlock our cellular
phone which has been
locked for 3 days. It
was given 115 station
on how to unlock it.



23 Tuesday 29 Oct '94 B. Mitchell
1127 Phone successfully unlocked
(123).

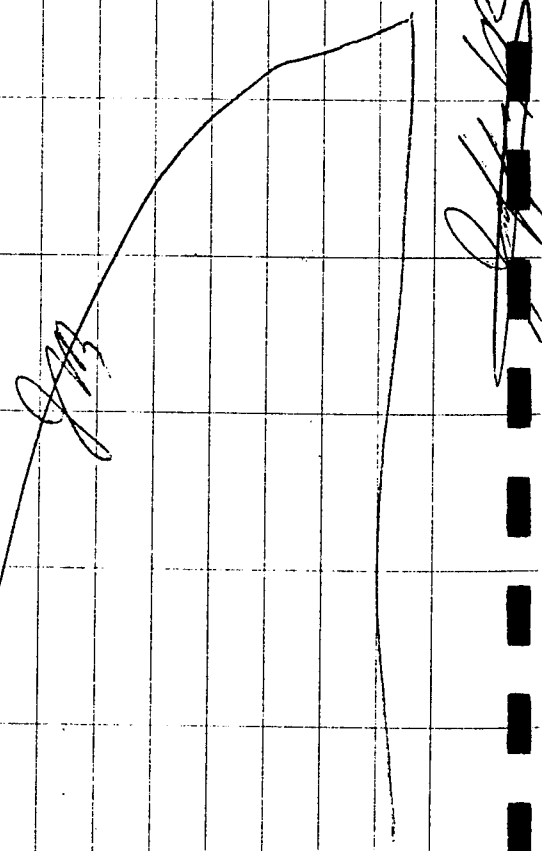
1145 Sorting bottles that have arrived
from Felix.
1230 Begin water QA/QC
sampling
1315 Completed water sampling.
1330-1400 BTZ
1410 - Moving to site OIO PS.
1430 Personal Safety + Health Briefing.
1442 Starting to punch hole OIO.
1500 Problems w/ 10 PSI
Fyler had to repunch hole - Started, the
people had no SKIPPERS in the

SP hit spoon.
1520 Finished sampling (soil) site
OIO PS. We have to close up in
order to be can vehicle before
water is shut off at 1630
We will do water sampling
for points 07-010 after
decon, time permitting.
1630 preparing for water
sampling. we will start with



Thurs 25 Oct 94 B. Mitchell
Point no. 010, + were
backward

1652 Decon complete -
moving to site 010.
1700 Health & Safety briefing
phase FT
1743 New sample from
sites 007 + 008, Air Force
Security indicated that
a flight would leave in
20 minutes - Not enough
time to sample 009 &
010 tonight.
1813 Reported site.



Wednesday 26 Oct 94 B. Mitchell
- Wake Saturday?
- CEC Shoot - B. Hillers
- John - change QATAC.

**0700 Arrival on base
Flights will be going in + out**

until 0900 or so, so we will
have to stay away from the
Area.
0740 Clearing site w/ CPT
Wickman. Wisconsin Natural
Gas has marked sites. CPT
Wickman has finished marking
the south end of the base
(0840) and will have the
rest done by noon.
0940 Talked w/ Dan Waltz
of ANVRC (returned his call)
and Bill Hedberg (H2WEAP).
The following changes/topics
were discussed. He said we
should:

- not send any more ^{organic} ~~inert~~ samples to the lab. we will only do GC screening of ~~samples~~ ^{soils}.

Wednesday 26 Oct '94 B. Mitchell
the water in the holes

- On soil samples, ~~except~~ we will only send 1 in 3 samples to the lab. At the end of the day, we will determine which samples to send to the lab based upon the results of PID and GC sampling (highest reading samples will be sent off).
- We will not install any piezometers.

- we will be installing four monitoring wells using HSA. We will install 1 well upgradient and 3 wells downgradient. we will choose points based upon groundwater flow data

- we will send GC water sample detection limit data for Dan Wolter at ANGRC. (fax (301) 981-8121). ~~offas~~
- I will fax Dan Wolter

[Signature]

23
Wednesday 26 Oct '94 B. Mitchell
a fax detailing these points.
1010 Briefed our crew on the changes detailed above.
1055 Prepared fax w/ detection data + details of phone con.

1100 Phone con w/ John Morris, Kathleen Merino, + Kathryn Pritchett
COTTECH - Caracore call) ref

this project. Discussed site selection for groundwater monitoring wells, procurement of a geologist to replace Ruben Fortales next week.

obtaining drillers for HSA monitoring wells, ~~offas~~ project schedule, etc.

1203 Faxed documents to Dan Wolter, ANGRC and Kathryn Pritchett, COTTECH.
1240 OVL

1355 called Barbara Mather - ANGRC contracting center. She stated that we should do 5 GW monitoring wells

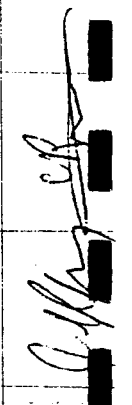
[Signature]

28

Wednesday, 26 Oct 94 B. Mitchell rather than 4 as Ben White had stated. She also indicated that we needed to do the piece notes. This contradicts this morning's conversation. I scheduled a 0715 conference call (0815 EST) to discuss the changes but not and Ruth Loder. Also, Barbara Mathis thought we would be sending all soil samples to the lab. Unfortunately, this is resolved we will ship 1/3 of the samples to the lab (tonight), and hold the other 2/3 on ice until tomorrow after the meeting. We will then feed as dispose of the ~~these~~ soil as appropriate. 1440 called Oatech (Kathryn) Patchett to inform them of the potential changes



Wednesday, 26 Oct 94 B. Mitchell to this morning's proposal so that we didn't make any changes until after tomorrow morning's conference call. She will discuss this with Russ... (John Assistant). 1535 Talked w/ Ryben Portales, our Geologist - He indicated that he had only been taking samples at every third site rather than collecting every sample + was basing decision on PID/GC readings, therefore only GC for B1 & B2, run on points 019 and 021. I informed him that we need to take all samples from now on (apparently there was a misunderstanding) and send the high samples (or all samples, depending on what the National Guard people decide. 1600 Took last sample from hole 027.



(30) Wednesday, 26 Oct 94 B. Mitchell
1641 moved to 04-023PS.

LB

~~gph, etc~~

(31)

Thursday, 27 Oct 94 B. Mitchell
0750 HTH + Safety, TPOD + Changes
to workplan briefing.

0800 Talked to SMSGT David
Smith reference turning of sprinklers
for a day so that we can
sample points 025 + 026.

0810 Recd copy of notes of
0715 phone conversation with
Rick Lodder, ANCRC and
Barbara Mappes, ANM Contracting.
- Addendum / changes to discussion
recorded yesterday.

- we will not take 196
water samples out of the
push samples (stat probe).

- Soil samples will now be
taken according to original
work plan, rather than
taking them from every
third hole. We will

go back to the two
holes that we only took
GC samples from yesterday
and collect a complete

~~gph, etc~~

(32)

Thursday, 27 Oct '94 B. Mitchell
Set of Samples.

- We will be installing & sampling 4 piezometers according to the original work plan specifications.
- We will install the 5 optional Groundwater monitoring wells according to work plan specifications.

08:30 Contacted Russ & Kathryn Pritchett (ORTECH) re: defense hiring drills for the optional monitoring wells.

09:00 Discussing QA/QC + other concerns w/ Auditor.

10:15 We have tried for the second time to get a duplicate sample at 3-5 ft., but did not get enough recovery. I have instructed TEG to try using a sand trap. They do not have any on the site, but will have them FedExed here for tomorrow.

[Signature]

(33)

Thursday, 27 Oct '94 B. Mitchell
1315-1319 Aug 9.

1110 Hose rupture on grab probe - worked until the rig repaired.

1117 Another H1th + Safety briefing.

1115 Took QA/QC sample on split span.

1140 Talked w/ LT Hulesman - was given permission to work on Saturday and Monday.

1150 Taking samples from 5 holes for GC analysis (water)

1250 Sampling complete - going to lunch + waiting for Bill Rig to be repaired.

1415 Rig has been repaired. We are drilling a hole adjacent to site 021 because

the hole collapsed before filling with water. We could not get a sample.

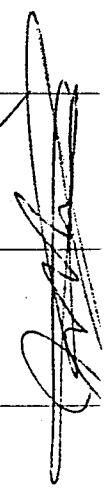
[Signature]

3

Thursday 27 Oct 94 R. Mitchell
150 Second well attempt
has partially collapsed 024 PS -
we will leave it in place
in hopes of getting
water tomorrow.
1515 Craig Hawkins will plug
+ abandon holes already
sampled. The rest of the
crew will work at 020 PS.
1425 Site completed (except for
Water GC Sample).
1450 Begin at site 026. Completed.
1800 Left Base

Friday 28 Oct 94 D. Mitchell
Day 10 1315-139

0657 Arrived on Base.
0800 Began work on piezometer in SE corner
of installation.
0912 Equipment Breakdown on Rig -
Stratoprobe operators will go
to the hardware store to get
some equipment to fix the
problem.
0951 Drillers fix problem w/
Stratoprobe.
1001 First Piezometer (04) installed
1046 Set up to do 025 PS.
1210 Hole 025 collapsed, we
will try to repunch it topped
a water sample.
1305 Drillers are having a hard time
punching the hole (025 PS).
1320 Second attempt (hole) has
also collapsed, we will not
try again here.
1325 OTL
1500 Begin operation on
029 PS.





(36)

Friday 28 Oct 94 B. Mitchell
1630 Methanol ordered on
Friday/Monday has not
yet arrived. Can not find
a local source with reasonable
prices. Coade method
in supply. We will begin
work tomorrow in hopes that
it arrives before our supply
runs out.
1720 Hole no. 030 finished.
1750 Left site for the day.

~~28~~

~~1630~~

(37)

Saturday 29 Oct 94 B. Mitchell
0700 Arrived on site
0715 Conducted Tailgate briefing
to include Haz Mat Safety briefing
and FOD briefing. Attended
by myself, Ruben Portales, Marc
Escobar, Brian Wiske and
Craig Hawkins. Steve Wilson
is ill today. Therefore, I
will switch from site manager
to site Safety Officer. Ruben
Portales will be Site Mgr/
Geologist.
0720 P2D + LEL calibrated
+ recorded by Marc Escobar.
0730 Moving to open area
to sample (nos 6c) water
at well 010. We will
also pull PVC from the holes,
and nos 7, 8, and 9. We
will plug and abandon
these holes (w/ cement
+ 3% bentonite). We
will then move to the
North end of the installation
~~1630~~

38
Saturday, 29 Oct 94 B. Mitchell
and take water samples from
the other PS points that
have not yet been sampled.
0830 Re calibrated PID w/ new
battery.
0840 Took water samples
from 008 + 010.
0842 Tried to pull PVC pipe
out of ground at 008. Could
only get the top 3 ft. length
will fill + abandon w/
remaining pipe in place.
stat probe has broken again -
foot will not withdraw. Shut
down until it was fixed.
0900 Leaving Tarmac.
0940 Stat probe can not
be repaired on site. They
have taken it off site for
repair.
1000 Sampling PS holes
for GC water. No. 19
Did not perform enough
work for a GC sample

J. Mitchell

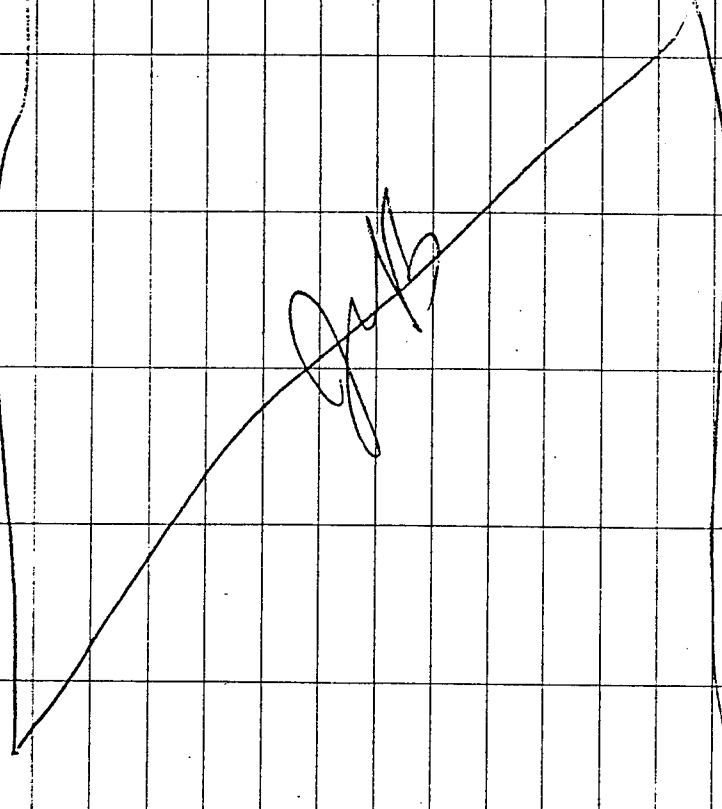
39
Saturday, 29 Oct 94 B. Mitchell
1040 called Ruth Loder +
left a progress message.
1055 PS 032 did not have
enough water to get a GC sample,
although the outside of the
bailor was wet.
1110 Dillec3 Return. They will
be ready to go by about noon.
1200 Return from lunch
1220 Begin to punch hole no.
036. Background PID readings
0.0. All PID / LEL readings
in the future are 0.0 values
otherwise noted.
1350 Hole 038 finished, including
GW Sample. Note: Pumping
operation in bldg. near site hole,
but it was downwind only.
During GW sampling.
1400 Moving to 035 PS. Ambient
PID / LEL readings are
negative.
1415 Begin punching operations
at 035 PS.

J. Mitchell

90

W.D.

Saturday, 29 Oct 94. R. Mitchell
1445 Finished 035 PS (including
water samples for GC).
1457 Left Base for Rig pooped
another hydraulic line.
Since flex closes at
1700, we will quit for the
day.
1510 Doing COCs, etc.
1550 Left Base.



Calvin

91

92

Monday 30 Oct 94

R. Mitchell

0600 Arrived on site - drillers will
probably start 0700. Calibrating
equipment, discussing project w/
New geologist.
0800 Working at CY-004 FZ.
Taking water level measurements,
calculating well volume, etc.
0820 Pump pie & sample well.
0835 Well was pumped dry -
Pete & I did well volume -
We will allow it to recharge
and start 0835 will purge again
bright or tomorrow morning.
We will install on-off 2nd.
0905 Left msg - for Ruth
later (she is on TDY
today).
1030 hrs Red Log accident. IV
locked w/ a "i" looking
paper on inside.
1:44 Working on + piezometer.
Push-pull of DA rig has
snapped. Drillers are heading
to a welding shop to

Monday, 31 Oct 94,
repair it. They will have
another one I cessed
here tomorrow

B. Mitchell

Tuesday, 1 Nov 94

0600 Arrived on site.

0630 Conducted tailgate briefing.

0650 Sampling PZ4. 37 ft

0720 Sampling complete.

0730 purging (initial purge) the
other 3 piezometers.

0830 PZ3 seems to be filled
w/ sediment to a level of
6-8 ft. BLS.

0920 We're still trying to purge
Clear PZ3. Casper Screen keeps
jumping up w/ silt, we are
trying to clear the fine silt
out of the piezometer.

0940 We have given up on this
effort. We are now moving
to continue with push sampling.

1000 Talked to Ruth Loder-

AKNG Project Manager. She

said that we do not have

to get a water sample

from PZ3 since we will

be putting a monitoring well
in the area. Also, I understood

[Signature]

(44)

Tuesday, 1 Nov '94
that we were having problems
obtaining GC water samples
from some of the PS points.
She agreed that there was
no need to punch additional
holes just to get a GC water
samples.

1020 Called John Morris. He
stated that we should put
off purging sampling of
piezometers until after all
push samples have been
completed. He also mentioned
that we should only purge
the wells once rather than
twice as I had planned to do.
1045 Called Earl Parker at Driller
contract. Will have drillers (1750)
prepared to be on site
this Friday.

1110 Starting at PS4-014.
1200 Completed point 01-014 PS.
1215 OTL
1300 Drilling 011, 012, & 013 along

~~Earl Parker~~

(45)

Tuesday, 1 Nov '94

B. Mitchell.

1900 Contracting Driller's Branching
to have them start work
on this Friday.
1915 Completed Sampling 04-013 PS.
1930 Observing final decompression
1748 Reported site

~~[Large handwritten scribble]~~

~~[Handwritten signature]~~

(11)

Wednesday, 2 Nov 94

B. Mitchell

0600 Surveyors - 0700 - Ground Shock

0600 Arrived on Base.

0630 Punching hole 04018 PS.

0631 Our shipment of soil

bottles for DR0 + GRC has

not arrived yet (scheduled to

have arrived yesterday) Therefore,

we will only use one bottle

for DR0 + one for GRC

for each sample (rather

than 2). Also, we will

collect no QA/QC

samples for soil until

more bottles arrive

0750 No. 018 PS done. Drill

Rig has broken an axle and

is immobile. We must

again await repairs.

0800 Surveyors arrive to

Survey Piezometers.

0805 Suggested we take QA/QC

samples on Split spoon and

barrel, but drill (Crig) left

w/ vehicle + equipment. Got find

~~Go~~

(11)

Wednesday, 2 Nov 94

B. Mitchell

a repair shop so we can't take

samples. Can't purge/sample

piezometers because

pump needs the generator

to run (generator on rig)

0900 Rig has been fixed -

moving to point 04-016 PS.

1000 Setting up at Site 04-017 PS.

(Note: we only were able

to recover soil sample 1203

at the 1-3' depth & ended at

point 04-016 PS.

1110 Moving to Site 04-004 PS

1203 PS - Completed Site

04-004 PS. Only one

soil sample set taken as

we hit ground water on

the 1-3' sample spoon.

1320 Setting up at Site 04-004 PS. Waiting

for PFD to be repaired/recharged.

1335 Called Ruth Langer.

ANGRC, and left a

progress report on her

Voice mail.

~~Go~~

(118)

Wednesday, 2 Nov '94 B. Mitchell
1618 Completed points 081-032.
Morning to perform final
nightly recovery. Craig thinking
will plug and seal holes.
1720 Left site

(119)

Thurs Day, 3 Nov 94 B. Mitchell
0600 Arrived on site
0630 Took QA/QC samples
in split spoon and barrel
0700 Working on 04-033PS
Tried to take an MS/MSPD
but did not get enough
soil to complete sample.
Will try again on next
point. Also only taking
1 GRC + 1 GRC bottle
per sample and we
get the rest of our
bottle delivery from
the lab. Ruth Loder
0830 called Ruth Loder
and gave her our daily
Status Report.
0900 Gave rollers (OS2) some
changes on casing sizes for G-4
wells (there was a discrepancy
between the SOW and
the work plan.
0915 Gave to work
0915 PT. 037 (SOT sewer

~~0915~~

(50) Thursday, 3 Nov '94 B. Mitchell
Webster.

1000 completed site - marking
to last site (04-08PS).

1015 I was notified by Marc
Escobar that Pace Lab's had
called and told us that they
had failed to use gas for solvent
in the DRO soil samples taken
on 26 Oct 1994.

1100 Phone call John Namist
Matt Alexander off EcH. They
stated that we should
re-sample the points for DRO.

1130 - I notified Ruth Graham
1700 OTL

1250 Resampling pts 020, 023, 027,
and 028 for DRO, to include
MS/MSD sample at pt 023.

We will attempt to get a sample
at 1-3' on 027 (no

recovery on our original
attempt) on 26 October
1994.

1400 Rec'd first sample (1-3')

[Signature]

Thursday, 3 Nov '94 B. Mitchell
from sample pt. 023
1520 AM point 023 re-sampled.

1530 Boring to sample pt 02, only
One purge, but being sampled at
PAC John Morris' order.

1620 On site at PZ2 - we did
not get a good purge at this
site due to clogging of the

well by sediment. However,
we will attempt to get a water-gas
ground water sample anyway.
(Probably only enough for GC
analysis).

1643 We attempted to go back to
PZ2 to finish collecting
our PATT sample (which
not get enough sample for
analysis on our first attempt),
but we were kicked off
the flight line area because

planes were scheduled to
land. Therefore we will not
have a full bottle for PATT
analysis.

[Signature]

1315-139

(52)

Friday, 4 Nov '94

B. Mitchell

0615 Arrived on base

0630 Put up flags at GW monitoring well sites selected by Geologist (Andrew) Raring.

0730 Cleared sites w/ CPT Wickman (Civil Engineering offices).

0800 Maj. - Base engineering office stated that all drums should be moved to the SW corner of the building.

0900 Started drilling MW 1.

0940pm 1015 John Morris indicated that we should go ahead w/ the wells, but we should get approval

from ANVRC first (WTF?)

1050 I have not been able to contact any one at the

Environmental Compliance Branch of ANVRC. The only

human voice I can get is a Secretary from

another division who can't

Friday, 4 Nov '94

B. Mitchell

figured out how to transfer me to Ruth Ladd's voice

mail. I left a msg. w/ the Sec'dry to have Ruth page me.

1200 Requested that Surveyors fax us information on Piezometer levels (they didn't give it to us yesterday as requested).

They will fax it to the installation and I will send it to Ruth, as requested

(I left msg. w/ the receptionist

1230 Andrew & I talked to Ruth Ladd - she okayed our well plan.

1350 CPT Wickman indicated that she wanted flush mounted

wells rather than above ground wells.

1500 After discussions w/ Ruth Ladd, the Drillers, CPT Wickman,

and John Morris, a compromise was reached on the well

Friday, 4 Nov 94. B. Mitchell
situation. Wells will now be
above ground, but well caps
and posts will be no more
than 3 ft above ground.

Monday, 7 Nov 94 P. Mitchell.
0605 Arrived on base
0840 We have conducted
our health & safety
briefing and are preparing
to drill MW5. We are
now awaiting the arrival
of our new geologist
(Kathleen Menard). We can
not sample until she
arrives.

0654 1-3' Sample brought
up (2-446 blow count).

0800 Soil in well has some
moisture from 7-8' but not
much. Recharge of this well
will probably be very slow.
0800 Well complete (except cave
portion - moving to down area).

0920 Escobar has pruned MW1.
0920 Left msg. by
Ruth Sedder.

0930 Drill rig got stuck in the
mud - awaiting for form
AN6 personnel.



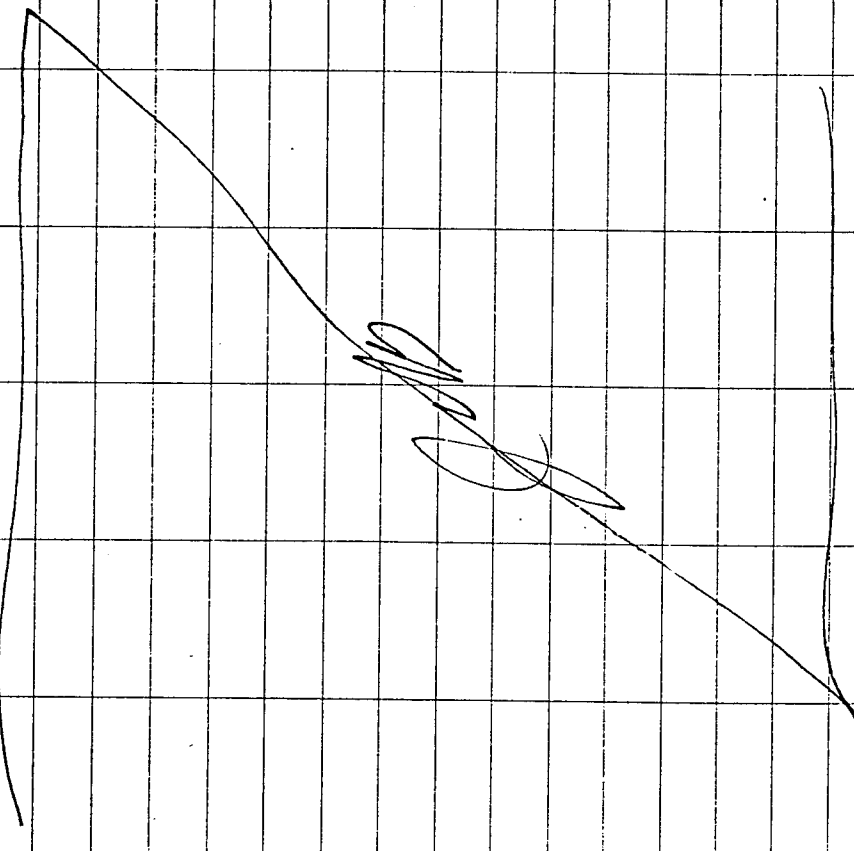


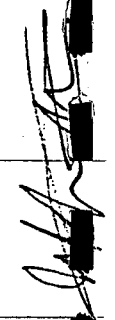
(56)

Monday, 7 Oct '94 B. Mitchell

1025 - Installing MW2 (along
open - close to PE2).
1200 Hole (wells) completed.
1230032

1340 Drilling well 3 (04-003 MW),
1400 Soil smells strongly of gasoline,
but PID reads 0.0 (probably
due to strong Northerly (to the
North) wind (0.0 ambient)).





(57)

Tuesday, 8 Nov. 94 B. Mitchell

0615 Conducted safety
meeting briefing ID am
now the SSD rather than
site manager.

0640 Calibrated PID as per

previous method.

0650 Purging + Sampling well No. 1.
~~gassing~~ pH temp cond.

1	7.02	53.0	11.53 x 60 (1153).
2	7.04	55.4	1155
3	7.04	54.5	1145
4	7.10	54.6	1148
5	7.08	54.8	1141
6	7.07	54.7	1143

0735 Completed sampling at
MW1.

0810 Meeting w/ CPT Wickman,
CF - to discuss drum storage
problem. I will get
back with her this afternoon.

0850 Working on developing
MW3. Strong smell, but PID at 0.0.

0910 Billies making into open
area. They are baying



Tuesday, 8 Nov 94 B.M. Atwell,
escorted by security
personnel.

am picked up flight schedule
for the next two days
from flight scheduling
office.

1050 - Drillers were escorted off
Apcon area by security patrol.
CE contact - CPT Wickman, not
available (at a meeting). Security
personnel changed the exit.

1200 Sampling / Pipes development
done for the day - now OTZ.
1250 Loading drums onto pallets
w/ help of the remaining dollar
he was waiting for the
concrete truck. NG CPT CPT
Wickman will then move the
bunks to the SW corner
of the base.

1320 Concrete truck arrive. I
assisted / carried on the
finer points of pouring
concrete.

[Signature]

Tuesday, 8 Nov 1994 B. Mitchell
1430 called Surgeons. Day
will be here at 0800

Thursday to finish surveying
and bring results of last
week's work.

1600 Drillers will arrive early
tomorrow w/ 2-3 people to
help move drums to areas
easily accessible by the ANK
- so they can be worked by
the base per ANK.

[Signature]

[Signature]

60

Wednesday, 9 Nov 94 B. Mitchell

0600 Arrived on base.
0630 conducted Safety & Health briefing.
0646 Kathleen & Marc will purge & sample wells. I will go w/ the drivers to palletize & move 55 gallon drums.
0730 Right stuck in mud as we tried to move to well area along the apron. Effort to pile w/ drums abandoned.
0755 fillers are going to paint post at well 15 (safely yellow).
0828 Called Ruth Gaudin & Ann gave her my morning report.
0840 Sampling at NW3. Strong gasoline odor at well top. PTO readings at up to 200ppm, but generally at 25-30ppm in well casing. Ambient and BZ levels were between 0.9 and 1.5. Strong winds kept readings low. PTO was reading 0.9 to 1.1 even upwind (Problem w/ PTO? - will re calibrate). Therefore actual BZ levels probably in

61

Wednesday, 9 Nov 94 B. Mitchell

0630 to 07 PM. Kathleen completed of smell, so I had her stand upwind & told her to wear respirator if it still bothered her. Marc & I had no problems w/ the odor.
0745 ANG will provide front-end loader to move drums from along the apron (we will load it). Also, they will move the pallets at 1300 (to SW end of post).
(Spilled to CPT Wickman and LT Huelman).
1053 called Landscaper ref hiring someone to fill & seed tracks from the drill rig.
Estimator will not be drivable until this afternoon, so I will offer we have moved the drums.
1105 P.O. Jim Side Manager (Kathleen) informed me that she forgot to take pictures of water from pumped wells (as per workplan). I noted since it was done for P.W. OY-005.

Wednesday
9 Nov 94

B. Mitchell

1300 wells have been completed (paving, etc). Also, sampling was completed at 11/5/94.

1305 Above ground base to show CPT Wickman down locations (w/ pallets). Forklift began moving drums to SW corner of the base.

1340 Forklift got stuck trying to move drums from beam area.

*Addendum to above (Bas) - CPT Wickman stated that wood frames had to be removed from wells - drillers will remove on Friday after we have had a couple of days to set. Also, she wants soil + grass placed around all wells so that they will be flush w/ the ground, not above ground as in work plan.

C. Mitchell BA

Wednesday, 9 Nov 94 B. Mitchell

1430 We have removed most of the pallets/drums. 2 pallets w/ 3 drums remain. The forklift operator will remove them when the ground is drier. The ground is very soft today since it rained all night.

1500 Pouring lat set (5) for wells + wire brush to remove cement from Pgs well covers. 1530 Called Andy from Kuehe Landscapers - I will meet him at the front gate at 1600. In order to get an estimate of the cost of grass repairs.

1545 Locking first 4 wells and wire brushing well casings remaining concrete/cement.

~~Sub A~~

(64)

Thursday, 9 Nov 84 B. Mitchell

0530 Meeting to discuss Hermit
data logger procedures.

0800 Arrived on base. Awaiting Surveyors.
0830 Surveyors arrive - took them
around the base + pointed out
flags at sites.

0900 Returned to hotel to try to
figure out Hermit problems.

1020 John Morris called to discuss
Kathleen's headache; from yesterday
(She talked to Steve Wilson about

it yesterday + mentioned it
to Ruth Lohler today). She
wants her to come to

San Antonio + he will send
me another person to do
the slug feed.

1100 Paul Parker will replace Kathleen.
We are preparing to take
her to the airport.

1240 Dropped Kathleen off at
airport - moving to site (base)
to meet landscapers for a

1300 meeting.

[Signature]

(65)

Thursday, 9 Nov 84 B. Mitchell
1315-1339

1340 Landscaper arrives. He will give
me a quote on the hotel project at
about 1530 hrs today. He will also
give separate prices for the tire tracks
and building up the areas around
the wells.

1330 met w/ Surveyors - provided them
w/ additional maps + checked on
their progress. They will send
their results to our San Antonio
office.

1345 Called John Morris re: reference
land scaping. He does not want
to level off the areas around the
well. We may fill in the tire
cuts, depending on the cost.

1400 Talked w/ Todd from Pace Labs
reference samples from PS
locations. He indicated that there
was a discrepancy between the cor
document + sample bottle label at
point 33. He will talk to Mark
about it. He also stated that

[Signature]

Thursday, 9 Nov '94

B. Smithwell

Two bottles (P10) did not have enough sample to analyze (early).
1415-1500 Negotiating w/ Landscapers.
1510 Updating site map.

1530 Landscapers will still in tire ruts available next week for \$850 (tax included).

1540 Called CPT Wickman to tell her about filling in tire tracks, drum status, looks on wells, etc.

Also left a written note for LT ~~at~~ ^{to} ~~the~~ ^{the} ~~man~~ ^{man}.

1600 Preparing IDW log (drum inventory).

1700 Left site

1715 Purchasing equipment.

Friday, 10 Nov '94

P. Mitchell

- call drillers reference farms remove!
- storage building - check boxes.
- call Landscapers - contracting w/ Norma

1630 Arrived on site.

1700 performing 5th test on 04-085MW
070 H1H + Safety briefing conducted for myself & ~~ear~~ ^{ear} ~~phaser~~ ^{phaser} (see back page of notebook).

1715 12/4th - 70C to water.

1735 Called Landscapers to inform them that we would contact them on Monday re: a contract since our office is closed today.

1745 Called drillers. They will

remove the farms on Monday.

1750 No recharge in well (or very slow - moving to MW4).

1820 we can not get the printer to work, so we don't know if the

slug test data is good. HAZCO

technical support staff is limited

due to the holiday, therefore they can not provide any useful help

[Signature]

(68)

Friday, 10 Nov 94 B. Mitchell

1400 Well No. 04-001 (just finished well 04-002).

1630 ABB will pick up our stuff from the Grand Milwaukee

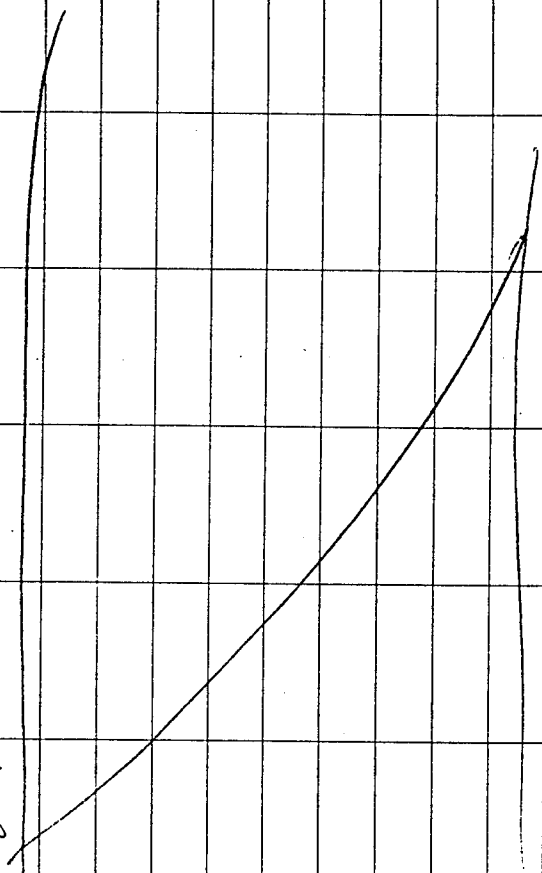
Storage room on Monday.
1700 Running final well and

packing equipment.
1830 Turned over keys to

monitoring wells to the
Gate Guard w/ instructions

to give them to LT Robert
Huelsman.

2030 Indexed Itasca + Inside
Equipment.



[Signature]

4100 NW Loop 410 57c230
San Antonio, TX 78229
(210) 731-0000

Billy Mitchell ANG-B
Milwaukee, WI
Lt. Rob Huelsman

20 Dec 94

0630 Loaded supplies in vehicles

0700 Breakfast/Meeting

0800 Arrived on Base: Met
w/ Lt. Rob Huelsman.

He said he would contact
security, but to let him
know before we went on
the apron.

0900 Got key to storage shed
unloaded supplies.

Setup decon.

Determining

Calibrated PID

Calibrated Hydac

(Took ~ 30 mins)

1100 Arrived at 04-005MW

PID at well opening

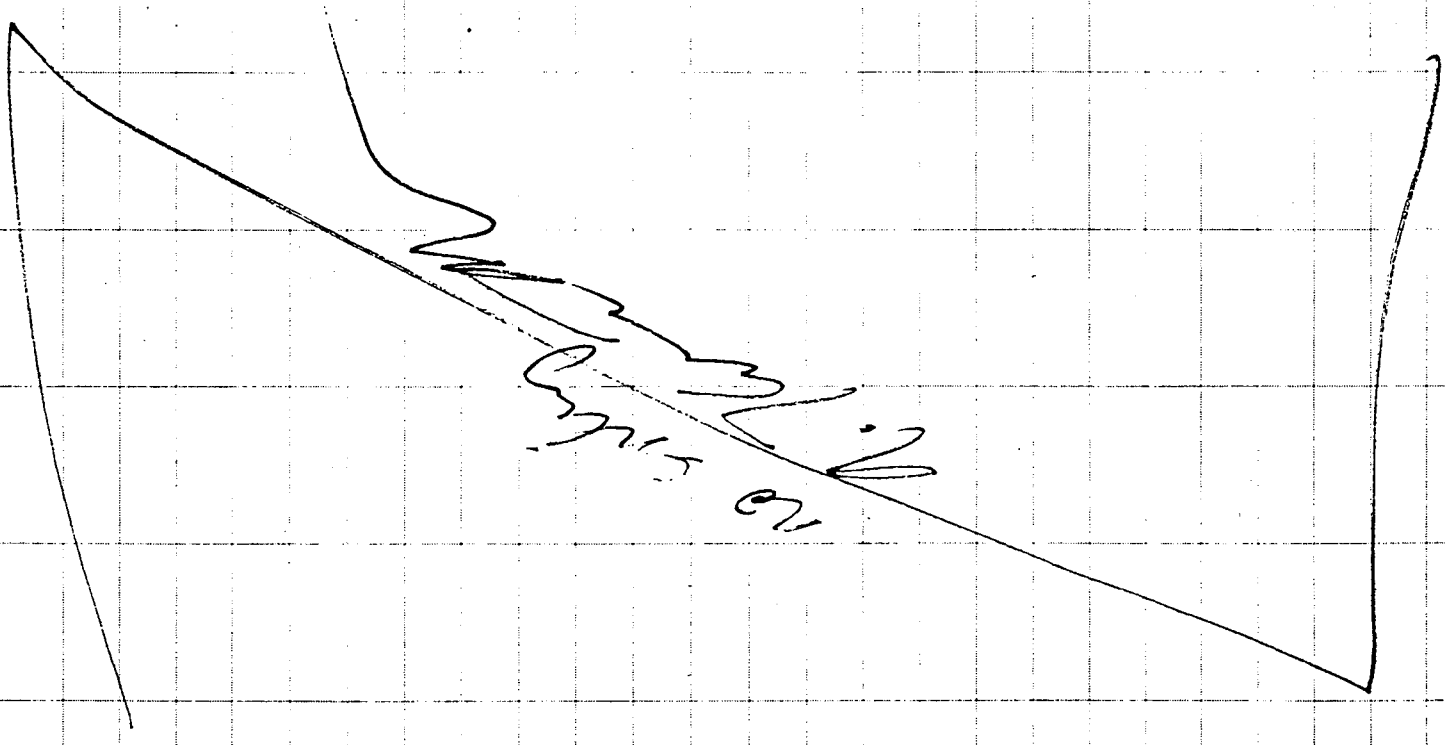
F. D.

Weather cloudy cold ~ 35°

Water level TOC → w.l.
= 5.92'

TD = 20.28'

<u>Vol</u>	<u>pH</u>	<u>Cond</u>	<u>Temp °F</u>
3 gal	6.04	1.36	49.7°F
4 gal	5.23	1.39	50.5
5 gal	4.95	1.67	51.0°
6 gal	4.80	1.65	51.2°
7 gal	4.63	1.61	51.2
8 gal	4.63	1.58	52.0
9 gal	4.60	1.60	51.9



Samples to be collected

8310 PAH - 1 l Amber

8020, 6-RO- 3 VOCs

DRO - 2 sm. Amber

0010 Pb - 1 plastic bottle

Depth to water $\xrightarrow{\text{TOC}}$ = 17.48'
1135

Env. Sample collected
@ 1135

1155 @ Soc, Pump left to
decon equipment

1205 [04-004 MW]

PID at opening of well cap

1215

04-004 MW

TCC \rightarrow water level = 7.21'

TPD = 18.98'

1220 began Pumping, Hydac
Re calibrated

<u>Vol</u>	<u>pH</u>	<u>Cond</u>	<u>Temp °F</u>
1 gal	8.50	1.78	49.2°
2 gal	8.55	1.80	50.5°
3 gal	8.21	1.85	51.1°
4 gal	8.50	1.92	51.9°
5 gal	8.51	1.95	51.8°
6 gal	8.20	2.02	51.6°

no
entry
N. 11/1/04

04-004 MW

Water level from TOC = 8.50'

1230

Env sample collected

~~1300~~

1245 Joe & Ray left to clean equipment

1305

04-001 MW

PD at opening of well cap
= 0.0 rpm

Water level from TOC = 6.24'

TD = 19.9'

Turn on pump
N.

no sample collected

<u>Vol</u>	<u>pH</u>	<u>cond</u>	<u>temp °F</u>
1 gal	7.36	1.96	49.2
2 gal	6.90	1.90	49.3
3 gal	6.91	1.97	50.1
4 gal	6.95	2.00	50.7
5 gal	6.61	2.06	50.5
6 gal	6.61	2.01	50.5
1330	Env. Sample collected		
Dup	Sample collected		

1420 04-002MW

PID at well opening = 0.0ppm

Water level \rightarrow TOC = 7.42' TD = 20.3

Vol	pH	Cond	Temp
-----	----	------	------

1 gal	6.58	1.96	48.2
-------	------	------	------

2 gal	6.50	1.96	50.5
-------	------	------	------

3 gal	6.35	2.01	50.8
-------	------	------	------

4 gal	6.32	2.00	51.1
-------	------	------	------

5 gal	6.55	1.97	51.0
-------	------	------	------

6 gal	6.40	1.93	50.7
-------	------	------	------

1435

Env. Sample collection

No Contam

1530 Arrived at 04-00314W
Donned Level C
gown

PID at well opening 829 ppm

TOC \Rightarrow water = 5.78'

TD = 19-36

Amb PID = 4 \rightarrow 10 ppm
Breath zone

Vol	pH	Cond	Temp
1 gal	6.61	1.76	45.1
2 gal	6.20	1.75	45.4
3 gal	6.22	1.71	50.1
4 gal	PID at well entrance	1.79 ppm	

170.0 m
17.2 m

<u>Vol</u>	<u>pH</u>	<u>cond</u>	<u>temp</u>
4 gal	6.10	1.76	50.7
5 gal	6.10	1.79	51.2

~~6 gal~~

Env. sample collected

W. B.

APPENDIX B

FIELD GC SCREENING RESULTS

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Table B.1
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl- benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-001PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-001PS (5 - 7)	40	1	ND	ND	ND	41
04-002PS (1 - 3)	ND	3	ND	ND	ND	3
04-002PS (5 - 7)	3	3	ND	ND	ND	6
04-003PS (1 - 3)	ND	3	ND	ND	ND	3
04-003PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-004PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-005PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-005PS (5 - 7)	8	15	3	ND	ND	26
04-006PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-006PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-007PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-007PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-008PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-008PS (5 - 7)	9	ND	ND	ND	ND	9
04-008PS (8 - 10)	ND	1	ND	ND	ND	1
04-009PS (1 - 3)	ND	1	ND	ND	ND	1
04-009PS (5 - 7)	ND	1	ND	ND	ND	1
04-010PS (1 - 3)	1	ND	ND	ND	ND	1
04-010PS (3 - 5) Dup	ND	ND	ND	ND	ND	ND
04-010PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-010PS (8 - 10)	ND	ND	ND	ND	ND	ND
04-011PS (1 - 3)	37	5	2	10	ND	54
04-011PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-012PS (1 - 3)	2	2	1	11	ND	16
04-012PS (5 - 7)	107	2	ND	5	ND	114
04-013PS (1 - 3)	ND	7	ND	3	ND	10
04-013PS (5 - 7)	27	37	2	11	ND	77
04-014PS (1 - 3)	68	12	29	209	ND	318
04-014PS (7 - 9) 5X	ND	58,500	36,300	500,000	30,300	625,000
04-014PS (7 - 9) 20X	111,000	20,900	11,000	265,000	4,972	413,000
04-015PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-015PS (3 - 5) 20X	ND	54,400	12,400	317,000	5,020	389,000
04-015PS (3 - 5) 50X	ND	24,700	12,500	98,600	ND	136,000
04-016PS (1 - 3)	58	ND	ND	108	ND	166
04-017PS (3 - 5)	ND	ND	ND	ND	ND	ND

Table B.1 (Continued)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl- benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-018PS (1 - 3)	ND	ND	1	ND	ND	1
04-018PS (5 - 7) 2X	ND	ND	ND	539,000	123,000	662,000
04-018PS (5 - 7) 25X	13,500	26,100	14,500	175,000	7,850	237,000
04-019PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-019PS (5 - 7)	26	154	21	71	ND	272
04-020PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-020PS (5 - 7)	801	2,190	1,690	4,930	14	4,630
04-021PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-021PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-022PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-022PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-023PS (1 - 3)	1	3	9	144	67	224
04-023PS (3 - 5) MS/MSD	3	ND	1	22	8	34
04-023PS (5 - 7)	1	ND	ND	6	ND	7
04-024PS (1 - 3)	13	14	1	ND	ND	28
04-024PS (3 - 5)	5	12	ND	6	ND	23
04-025PS (1 - 3)	26	21	51	112	ND	210
04-025PS (3 - 5) Dup	20	32	ND	ND	ND	52
04-025PS (5 - 7)	5	3	ND	ND	ND	8
04-025PS (10 - 12)	132	ND	ND	ND	ND	132
04-026PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-026PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-027PS (1 - 3)	ND	ND	ND	8	ND	8
04-027PS (5 - 7)	ND	ND	ND	2	ND	2
04-028PS (1 - 3)	ND	6,310	2,650	31,200	17,600	57,800
04-028PS (5 - 7)	ND	ND	87,400	ND	82,000	169,000
04-029PS (1 - 3)	7	2	ND	ND	ND	9
04-029PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-030PS (1 - 3)	ND	1	ND	ND	ND	1
04-031PS (1 - 3)	28	ND	ND	ND	ND	28
04-031PS (5 - 7)	39	ND	ND	ND	ND	39
04-032PS (1 - 3)	ND	ND	ND	ND	5	5
04-033PS (1 - 3)	2	ND	ND	ND	ND	2
04-033PS (3 - 5)	1	ND	ND	ND	ND	1

Table B.1 (Continued)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl- benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-034PS (1 - 3)	ND	1	ND	ND	5	6
04-034PS (3 - 5)	9	1	1	1	ND	12
04-034PS (5 - 7)	ND	ND	1	ND	ND	1
04-035PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-035PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-036PS (1 - 3)	ND	ND	ND	ND	2	2
04-037PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-037PS (5 - 7)	2	ND	ND	ND	ND	2
04-038PS (1 - 3)	ND	ND	ND	ND	18	18
04-038PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-038PS (10 - 12)	ND	ND	ND	ND	ND	ND
04-001PZ (1 - 3)	ND	432	376	3,270	2,615	6,690
04-001PZ (5 - 7)	ND	ND	ND	ND	ND	ND
04-002PZ (1 - 3)	11	40	13	189	10	263
04-002PZ (5 - 7)	ND	ND	ND	14	ND	14
04-003PZ (1 - 3)	ND	ND	ND	ND	ND	ND
04-003PZ (3 - 5) Dup	ND	ND	7,350	1,470	54,900	63,700
04-003PZ (3 - 5) Dup 5X	ND	25,300	6,900	89,900	73,200	195,000
04-003PZ (5 - 7) 2X	3,730	4,070	1,460	15,900	374	25,500
04-004PZ (1 - 3)	ND	ND	ND	ND	ND	ND
04-004PZ (5 - 7)	ND	ND	ND	ND	ND	ND
04-004PZ (8 - 10)	ND	ND	ND	ND	ND	ND
04-001MW (2 - 4)	18	2	2	ND	ND	22
04-002MW (1 - 3)	ND	1	ND	ND	ND	1
04-002MW (10 - 12)	ND	2	4	ND	ND	6
04-003MW (1 - 3)	ND	ND	ND	1	ND	1
04-003MW (5 - 7)	83	96	71	1,000	ND	1,250
04-003MW (10 - 12) 10X	ND	214,000	405	150,000	ND	364,000

Table B.1 (Concluded)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl- benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-004MW (1 - 3)	ND	ND	ND	ND	ND	ND
04-004MW (5 - 7)	ND	ND	ND	ND	ND	ND
04-004MW (10 - 12)	ND	ND	ND	ND	ND	ND
04-005MW (1 - 3)	5	50	ND	ND	ND	55
04-005MW (5 - 7)	2	1	ND	ND	ND	3
04-005MW (10 - 12)	11	4	ND	21	ND	36

ft BLS - feet Below Land Surface.

ppb - parts per billion.

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes.

PS - Push Sample.

GC - Gas Chromatograph.

PZ - Piezometer.

MW - Monitoring Well.

Dup - Duplicate.

ND - Non-Detect.

2X, 5X, 20X, 25X, 50X - Dilution Factors.

Table B.2
Field GC Results of Groundwater Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval	Concentration (ppb)					Total BTEX
	Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylene	
04-001PS	10	1	2	3	ND	16
04-002PS	34	ND	ND	ND	ND	37
04-003PS	ND	4	ND	ND	ND	4
04-004PS	2	8	ND	ND	ND	10
04-005PS	27	3	1	26	ND	57
04-006PS	ND	ND	ND	ND	ND	ND
04-007PS	12	2	ND	ND	ND	14
04-008PS	ND	3	ND	ND	ND	3
04-009PS	ND	ND	ND	ND	ND	ND
04-010PS	ND	ND	ND	ND	ND	ND
04-012PS 2X	12,000	936	664	5,588	ND	19,188
04-013PS	67	67	ND	47	ND	181
04-014PS 2X	ND	5,000	13,300	167,000	49,900	253,000
04-014PS 5X	6,610	26,126	9,910	114,000	54,700	211,000
04-015PS 20X	ND	38,200	12,000	290,000	5,270	346,000
04-016PS 2X	27,300	13,900	3,740	47,300	ND	92,240
04-017PS	ND	79	ND	ND	ND	79
04-018PS 20X	ND	19,000	8,780	158,000	835	187,000
04-019PS	5,310	4,110	2,840	19,900	7,000	39,200
04-020PS	ND	ND	ND	ND	ND	ND
04-021PS	1	ND	4	ND	ND	5
04-023PS	ND	ND	ND	ND	ND	ND
04-024PS	24	5	ND	ND	ND	29
04-024PS	ND	248	ND	ND	ND	248
04-024PS	ND	66	ND	ND	ND	66
04-027PS	ND	ND	ND	ND	ND	ND
04-028PS	ND	ND	14,900	47,400	45,600	108,000
04-028PS	ND	ND	ND	228,000	65,300	293,000
04-030PS	74	ND	5	ND	ND	79
04-030PS	ND	ND	ND	ND	ND	ND
04-031PS	ND	10	ND	ND	ND	10

Table B.2 (Concluded)
Field GC Results of Groundwater Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval	Concentration (ppb)					Total BTEX
	Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylene	
04-032PS	ND	66	ND	ND	ND	66
04-033PS	44	2	ND	ND	ND	46
04-034PS	37	3	ND	ND	ND	40
04-035PS	11	ND	ND	ND	ND	11
04-036PS	113	14	ND	ND	ND	127
03-037PS	135	90	ND	ND	ND	225
04-038PS	ND	ND	ND	ND	ND	ND
04-002PZ	ND	281	ND	ND	ND	281
04-003PZ 5X	ND	26,100	7,640	101,000	3,230	138,000
04-004PZ	ND	2	1	28	ND	31
04-001MW	9	10	ND	4	ND	23
04-002MW	ND	4	ND	ND	ND	4
04-003MW 5X	178,000	52,500	6,600	65,000	ND	302,000
04-004MW	ND	ND	ND	ND	ND	ND
04-005MW	ND	3	ND	ND	ND	3

GC – Gas Chromatograph.
ppb – parts per billion.
PS – Push Sample.
PZ – Piezometer.

MW – Monitoring Well.
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes.
ND – Non-Detect.
2X, 5X, and 20X – Dilution Factors.

Table B.3
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-001PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	▲
	5.0 - 7.0	0	▲
04-002PS	0.0 - 1.0	0	0
	1.0 - 3.0	0	0
	5.0 - 7.0	1.8	0
04-003PS	1.0 - 2.0	138	8.9
	5.0 - 7.0	28.3	26.1
04-004PS	0.0 - 1.0	3.0	▲
	1.0 - 3.0	12.8	▲
	3.0 - 4.0	▲	▲
04-005PS	1.0 - 2.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-006PS	1.0 - 2.0	▲	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-007PS	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
	7.0 - 9.0	0	0
04-008PS	0.0 - 1.0	2.1	▲
	1.0 - 3.0	3.8	1.3
	5.0 - 7.0	6.0	0.8
	8.0 - 10.0	13.3	74.2
04-009PS	0.0 - 1.0	0	0
	1.0 - 2.0	0	240
	3.0 - 5.0	3.5	▲
	5.0 - 7.0	60.1	3,032

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-010PS	0.0 - 1.0	0.5	▲
	1.0 - 3.0	6.1	0.3
	3.0 - 5.0	1.3	0.4
	5.0 - 7.0	1.3	3.0
	8.0 - 10.0	1.8	3.6
04-011PS	0.0 - 1.0	▲	▲
	1.0 - 3.0	2.4	▲
	5.0 - 7.0	2.8	▲
04-012PS	0.0 - 1.0	2.6	▲
	1.0 - 3.0	3.2	▲
	5.0 - 7.0	2.0	▲
04-013PS	0.0 - 1.0	▲	▲
	1.0 - 5.0	3.4	▲
	5.0 - 7.0	2.9	▲
04-014PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	7.0 - 9.0	617	283
04-015PS	0.0 - 1.0	0	▲
	1.0 - 3.0	18.7	▲
	3.0 - 5.0	▲	▲
04-016PS	0.0 - 1.0	0.2	▲
	1.0 - 3.0	47.3	▲
04-017PS	0.0 - 0.5	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0	0
	5.0 - 7.0	▲	▲

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-026PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-027PS	0.0 - 1.0	0.8	0
	1.0 - 3.0	0	0.3
	5.0 - 7.0	0	0
04-028PS	0.0 - 1.0	2.3	▲
	1.0 - 3.0	143	132
	5.0 - 7.0	1,797	1,725
04-029PS	0.0 - 1.0	0	▲
	1.0 - 2.5	0	1.6
	5.0 - 7.0	0.6	0.8
04-030PS	0.0 - 1.5	2.3	▲
	1.5 - 3.0	1.3	1.7
	5.0 - 5.5	2.6	3.8
04-031PS	0.0 - 1.0	5.9	▲
	1.0 - 3.0	9.7	▲
	5.0 - 7.0	5.1	▲
04-032PS	0.0 - 1.0	0.7	▲
	1.0 - 3.0	13.4	▲
	5.0 - 7.0	▲	▲
04-033PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0.2	0
	5.0 - 7.0	▲	▲

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-018PS	0.0 - 1.0	1.3	▲
	1.0 - 3.0	3.2	▲
	5.0 - 7.0	872	▲
04-019PS	0.0 - 1.0	1.6	0.6
	1.0 - 3.0	13.2	▲
	5.0 - 7.0	1.6	0.5
04-020PS	0.0 - 1.0	1.0	0
	1.0 - 3.0	18.2	42.3
	5.0 - 7.0	229	780
04-021PS	0.0 - 1.0	1.5	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-022PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-023PS	0.0 - 1.0	0	▲
	1.0 - 3.0	3.0	0
	3.0 - 5.0	1.2	0
	5.0 - 7.0	0	0
04-024PS	0.0 - 1.0	5.9	▲
	1.0 - 3.0	9.7	▲
	3.0 - 5.0	5.1	▲
04-025PS	1.0 - 3.0	0	▲
	3.0 - 5.0	0	0
	5.0 - 7.0	0	0
	10.0 - 12.0	0	0

Table B.3 (Concluded)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

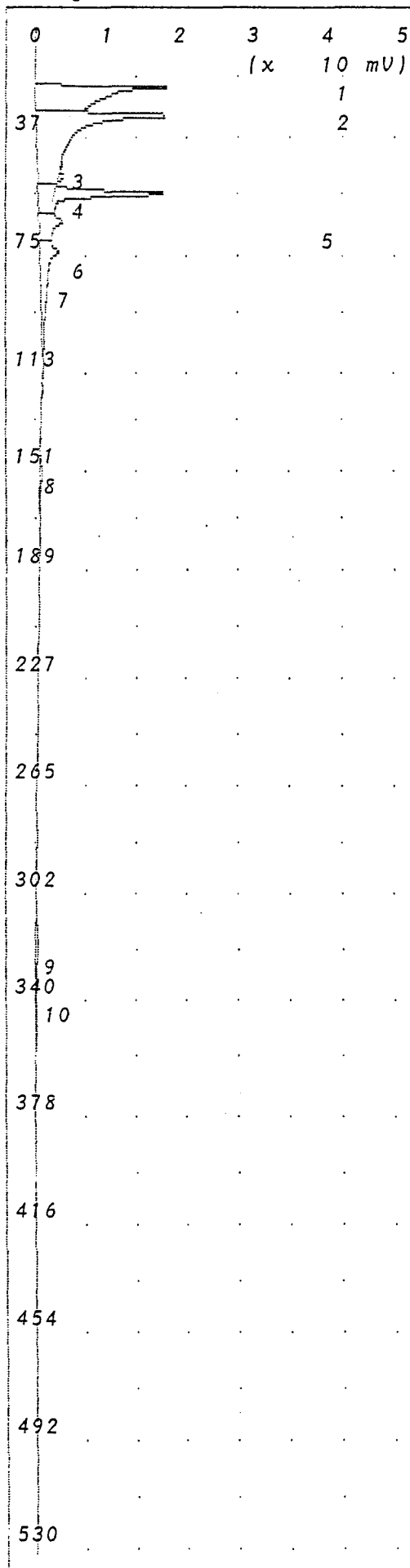
Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-034PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0	0
	5.0 - 7.0	0	0
04-035PS	0.0 - 1.5	0	▲
	1.5 - 3.0	0	0
	5.0 - 7.0	0	0
04-036PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
04-037PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	▲
	5.0 - 7.0	0	▲
04-038PS	0.0 - 0.5	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
	10.0 - 12.0	0	0

GC – Gas Chromatograph.
ft. BLS – feet Below Land Surface.
ppb – parts per billion.
PS - Push sample.
▲ - Analysis not taken.

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Analysis #5

10S+ GC Function Analysis Report



Time Printed: Oct 24, 94 16:27

Sample Time: Oct 24, 94 16:18

Method

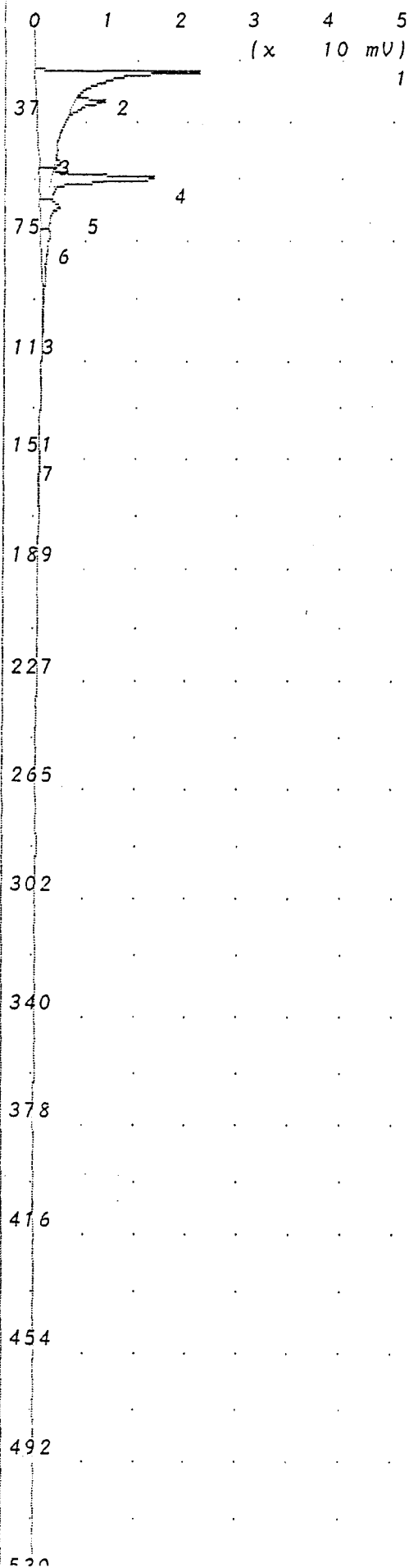
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	88.68 mVS	19.1
2	Unknown	135.7 mVS	28.1
3	Unknown	0.463 mVS	43.8
4	Unknown	1.642 mVS	48.2
5	Unknown	58.80 mVS	53.5
6	Unknown	20.60 mVS	62.6
7	Benzene	10.17 ppb	72.0
8	Toluene	0.969 ppb	149.8
9	Ethylbenzene	1.813 ppb	316.8
10	MP Xylene	3.425 ppb	343.3

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-001PS-GW



Time Printed: Oct 21, 94 11:22

Sample Time: Oct 21, 94 11:13

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	175.9 mVS	19.1
2	Unknown	10.62 mVS	28.6
3	Unknown	1.420 mVS	48.0
4	Unknown	54.57 mVS	53.5
5	Unknown	17.64 mVS	62.3
6	Benzene	34.16 ppb	71.6
7	Toluene	3.215 ppb	149.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-002PS GW

0 2 4 6 8 10

(x 10 mV)

1

37 2
75 3 4
5
113
151
6
189
227
265
302
340
378
416
454
492
530

Time Printed: Oct 20, 94 16:56

Sample Time: Oct 20, 94 16:47

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	202.9 mVS	20.1
2	Unknown	6.149 mVS	30.4
3	Unknown	1.923 mVS	50.7
4	Unknown	69.11 mVS	55.4
5	Unknown	33.66 mVS	65.4
6	Toluene	3.603 ppb	157.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-003PS GW

0 1 2

3 4 5
ix 10 mV

Time Printed: Nov 2, 94 15:43

Sample Time: Nov 2, 94 15:34

Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	49.21 mVS	27.0
2	Unknown	48.74 mVS	33.4
3	Unknown	37.81 mVS	41.3
4	Unknown	12.41 mVS	53.5
5	Unknown	96.54 mVS	57.6
6	Benzene	1.549 ppb	66.8
7	Toluene	7.598 ppb	152.4

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-004PS GW

37 1

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3

75 4

6

113

151 7

189

227

265

302

340

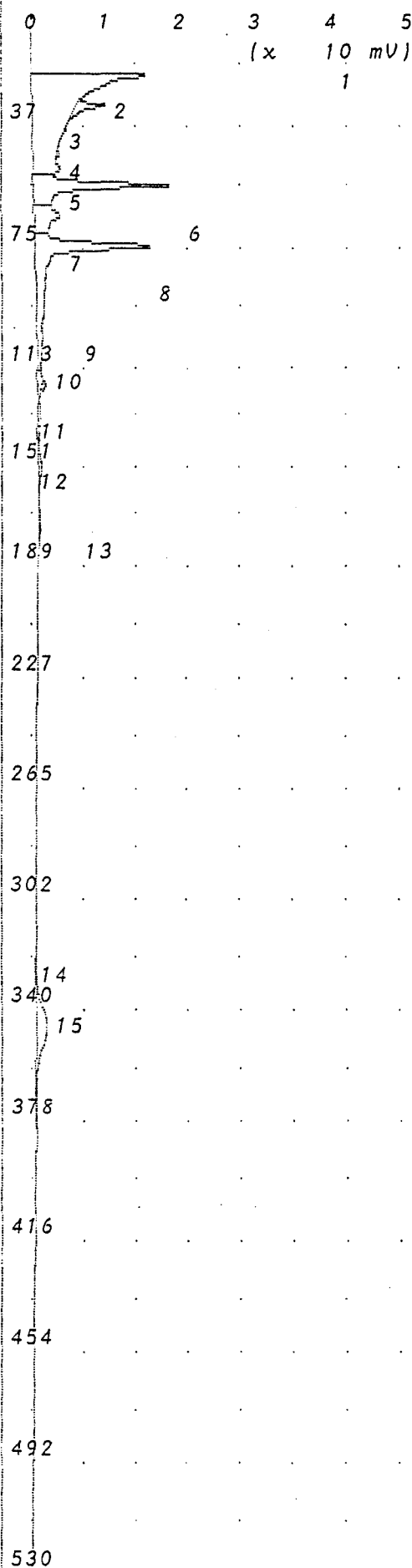
378

416

454

492

530



Time Printed: Oct 24, 94 16:39

Sample Time: Oct 24, 94 16:30

Method

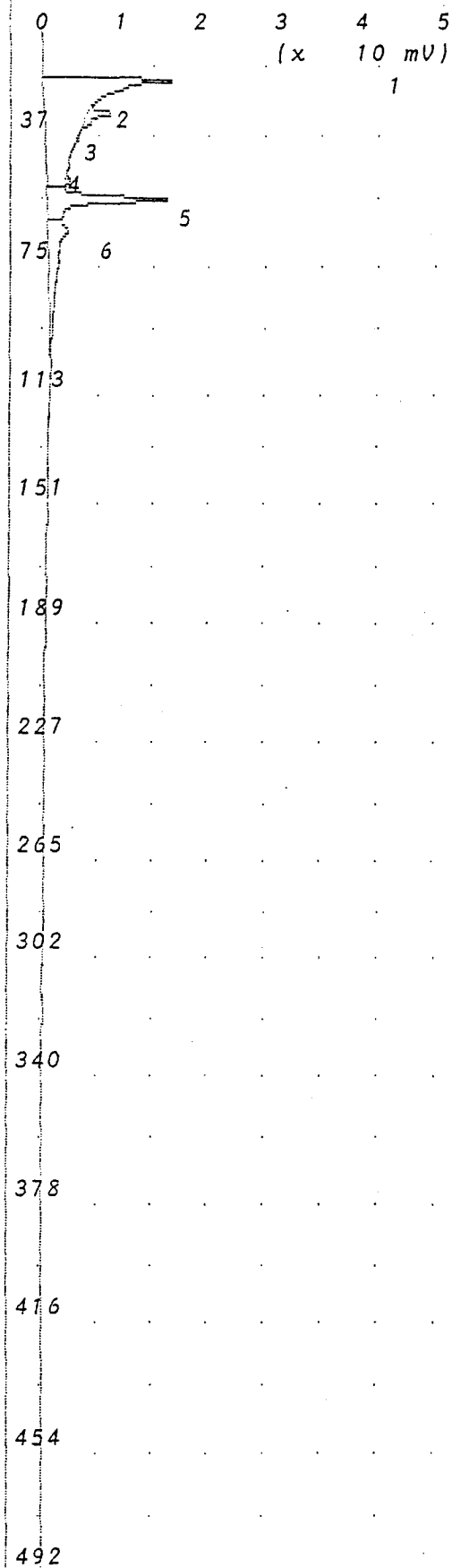
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	191.2 mVS	19.4
2	Unknown	8.233 mVS	28.7
3	Unknown	0.319 mVS	36.5
4	Unknown	0.473 mVS	43.8
5	Unknown	1.549 mVS	48.5
6	Unknown	59.78 mVS	53.8
7	Unknown	21.86 mVS	62.8
8	Benzene	26.70 ppb	72.5
9	Unknown	0.395 mVS	101.6
10	Unknown	9.665 mVS	116.6
11	Unknown	3.956 mVS	129.7
12	Toluene	2.503 ppb	149.8
13	Unknown	0.939 mVS	178.8
14	Ethylbenzene	0.755 ppb	318.1
15	MP Xylene	25.55 ppb	339.3

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-005PS-GW



Time Printed: Oct 21, 94 16:32

Sample Time: Oct 21, 94 16:23

Method

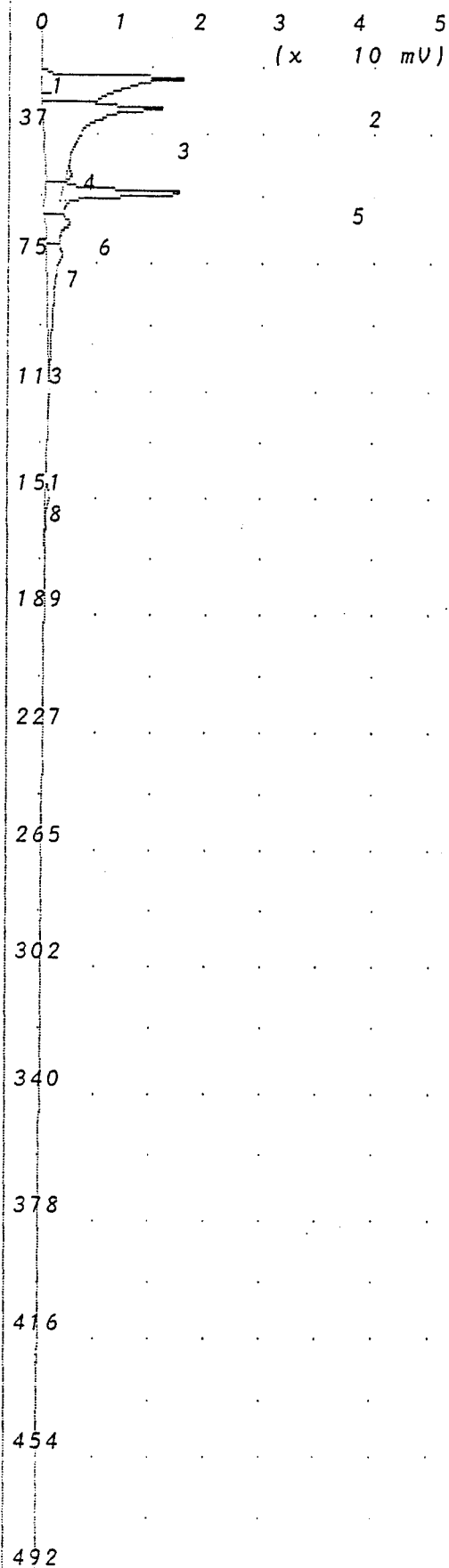
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	174.4 mVS	19.6
2	Unknown	7.695 mVS	29.0
3	Unknown	0.392 mVS	36.6
4	Unknown	1.141 mVS	48.5
5	Unknown	48.74 mVS	54.0
6	Unknown	38.74 mVS	63.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-006PS GW



Time Printed: Oct 25,94 11:53

Sample Time: Oct 25,94 11:44

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

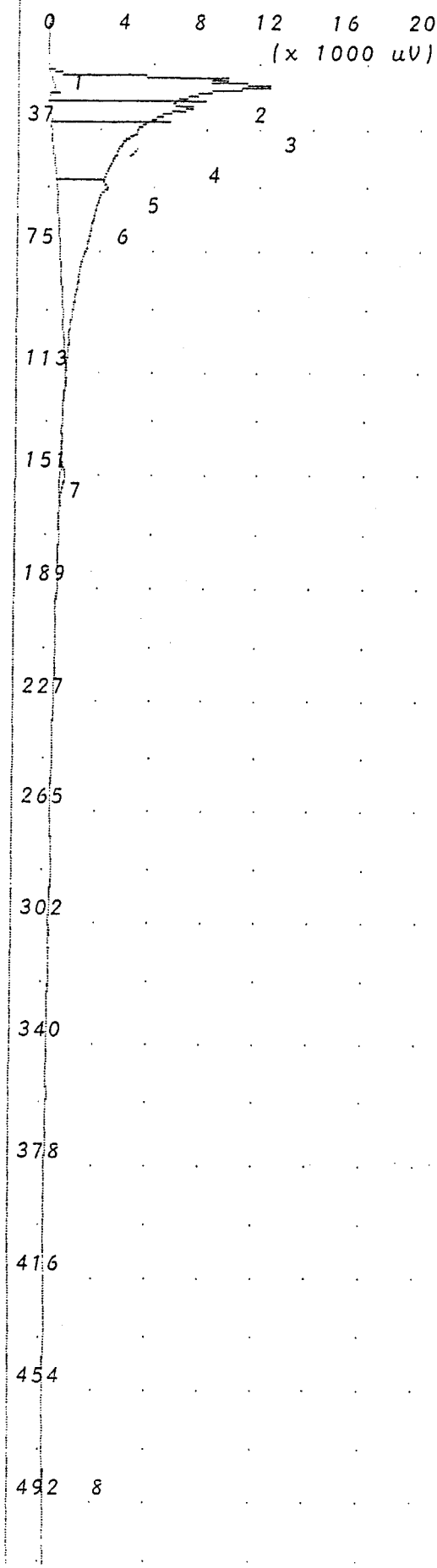
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.713 mVS	17.3
2	Unknown	94.16 mVS	18.6
3	Unknown	123.8 mVS	28.0
4	Unknown	1.470 mVS	47.5
5	Unknown	61.42 mVS	52.7
6	Unknown	20.16 mVS	61.6
7	Benzene	11.55 ppb	71.2
8	Toluene	2.018 ppb	148.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-007PS GW

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 11:08

Sample Time: Oct 29,94 10:59

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

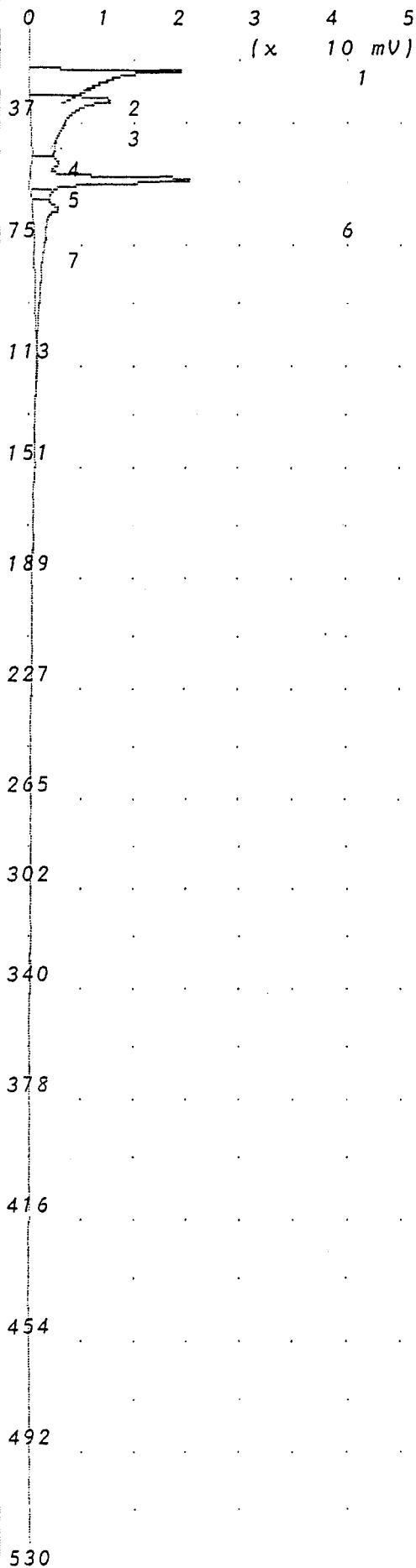
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.797 mVS	18.2
2	Unknown	15.78 mVS	19.8
3	Unknown	58.99 mVS	22.5
4	Unknown	102.7 mVS	28.8
5	Unknown	0.196 mVS	36.5
6	Unknown	65.90 mVS	53.8
7	Toluene	2.791 ppb	149.4
8	Unknown	1.632 mVS	477.2

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-008PS GW

Analysis #7

10S+ GC Function Analysis Report



Time Printed: Oct 25,94 12:05

Sample Time: Oct 25,94 11:56

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

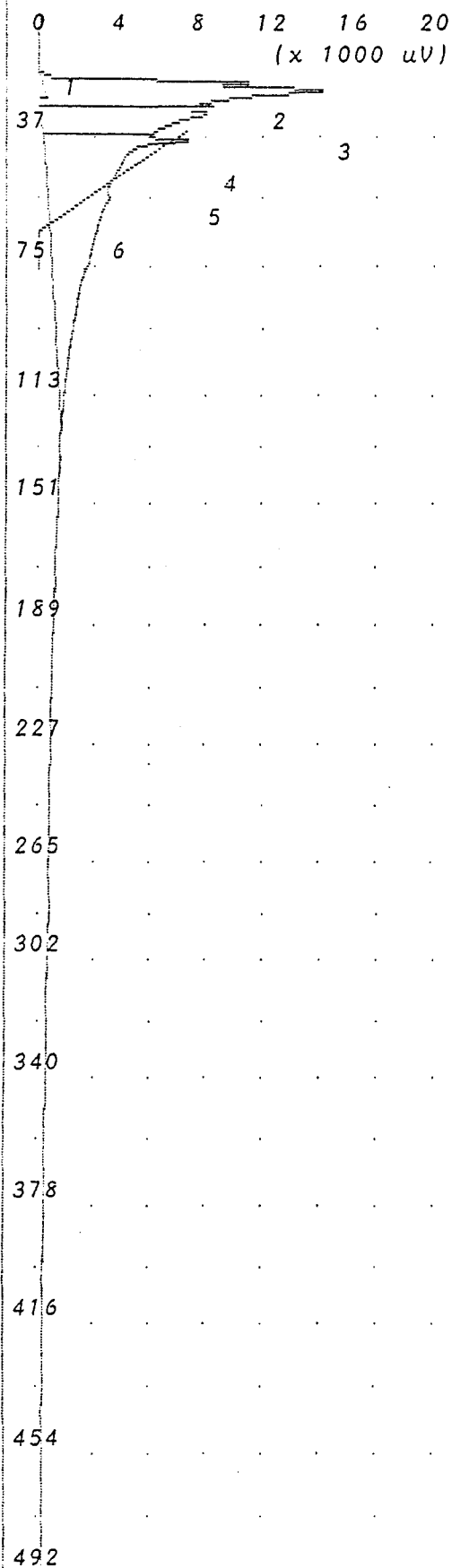
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	90.71 mVS	19.0
2	Unknown	0.549 mVS	21.8
3	Unknown	98.46 mVS	28.3
4	Unknown	0.351 mVS	35.9
5	Unknown	13.56 mVS	47.7
6	Unknown	70.52 mVS	52.5
7	Unknown	53.32 mVS	62.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-009PS GW

Analysis #15

10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 11:19

Sample Time: Oct 29, 94 11:11

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

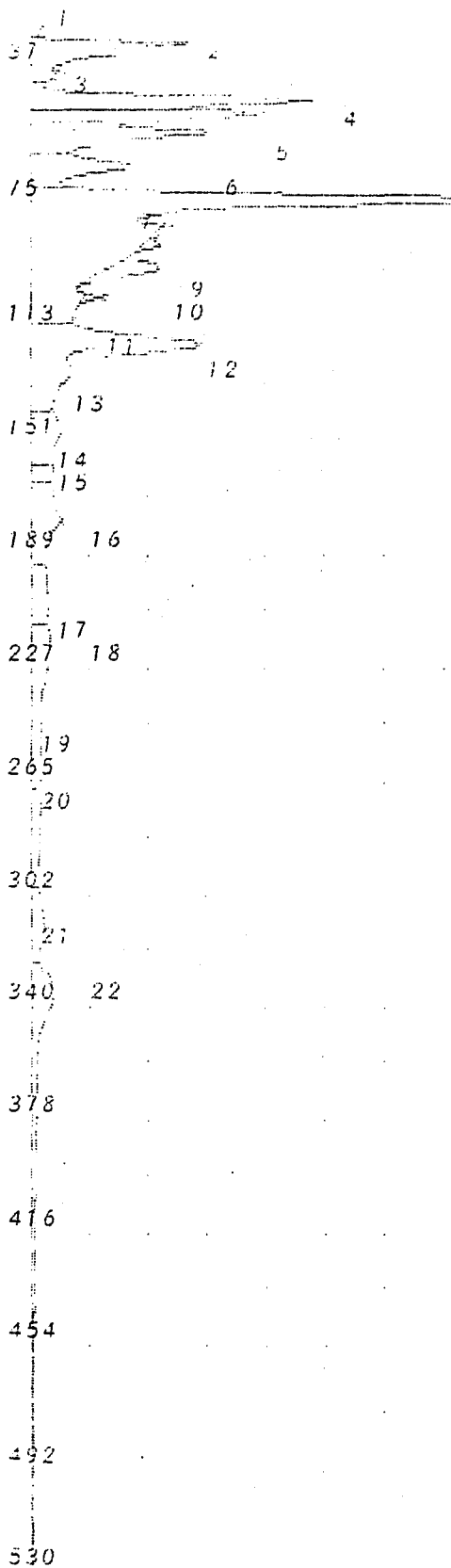
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.600 mVS	18.4
2	Unknown	16.82 mVS	19.7
3	Unknown	121.7 mVS	22.5
4	Unknown	3.646 mVS	28.9
5	Unknown	161.1 mVS	36.8
6	Unknown	0.605 mVS	53.9

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-010PS GW

Analysis #16 10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)



Time Printed: Nov 2, 94 11:43

Sample Time: Nov 2, 94 11:29

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

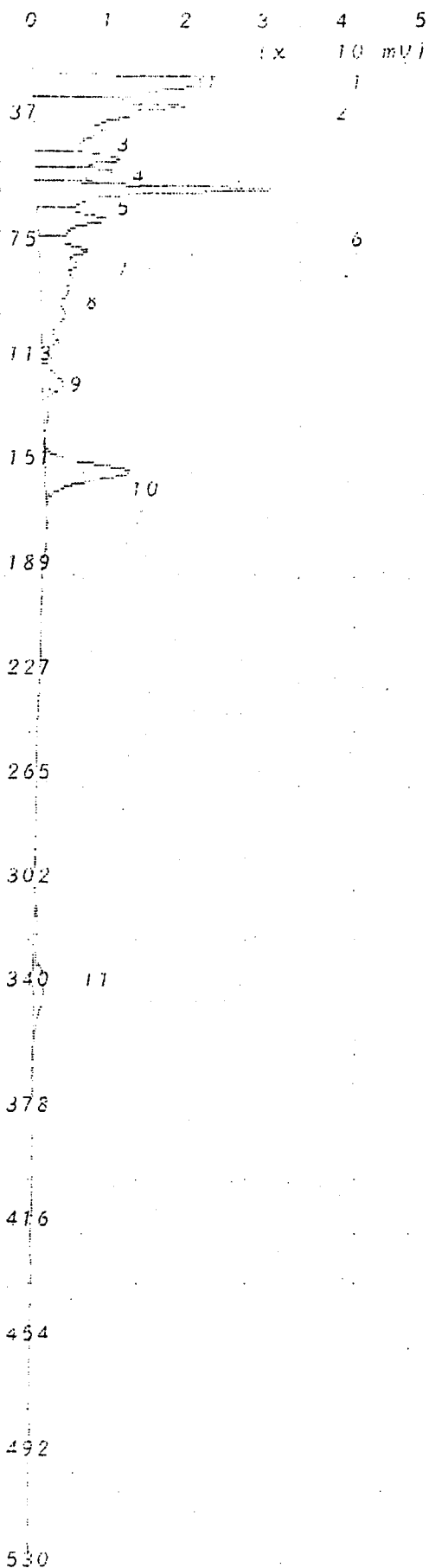
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	214.3 mVS	19.2
2	Unknown	1.730 VSec	28.6
3	Unknown	45.52 mVS	37.3
4	Unknown	2.529 VSec	44.6
5	Unknown	1.616 VSec	48.4
6	Unknown	2.065 VSec	53.6
7	Unknown	1.337 VSec	62.6
8	Benzene	5.963 ppm	72.1
9	Unknown	181.9 mVS	80.6
10	Unknown	474.1 mVS	91.0
11	Unknown	182.8 mVS	100.8
12	Unknown	4.077 VSec	115.4
13	Unknown	43.72 mVS	125.8
14	Toluene	468.3 ppb	145.6
15	Unknown	433.8 mVS	157.2
16	Unknown	1.406 VSec	175.0
17	Unknown	760.6 mVS	202.8
18	Unknown	1.089 VSec	214.6
19	Unknown	567.1 mVS	249.0
20	Unknown	689.9 mVS	267.7
21	Ethylbenzene	332.2 ppb	309.3
22	MP Xylene	2.794 ppm	333.8

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-012PS GW
2X Dilution

Analysis #19 10S+ GC Function Analysis Report

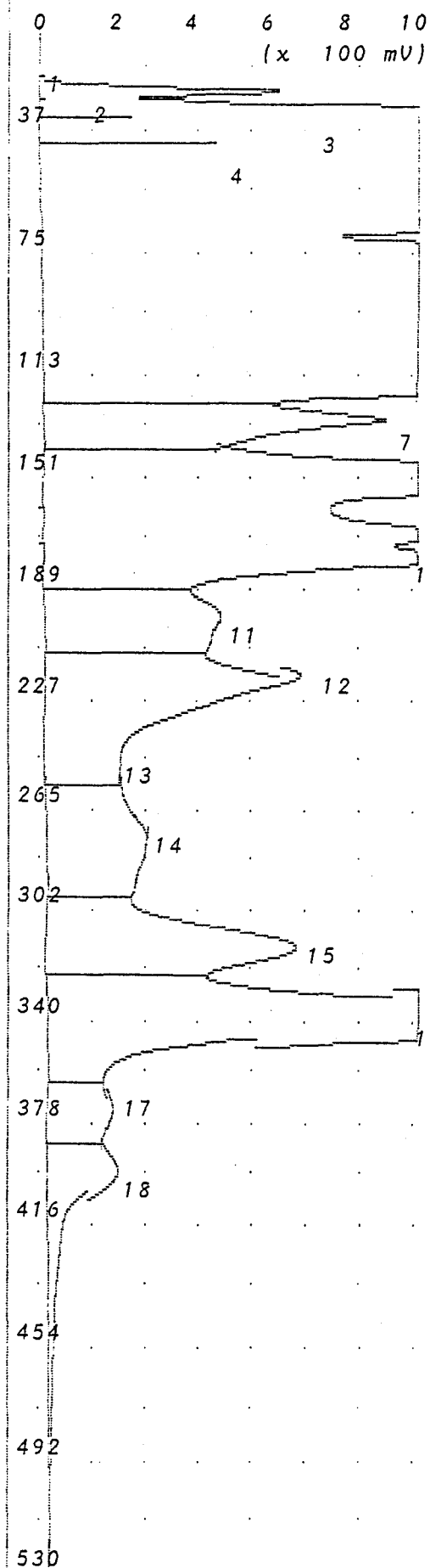


Time Printed: Nov 2, 94 12:28
 Sample Time: Nov 2, 94 12:19
 Method
 Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 R/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
Pe	Compound Name	Area/Conc	R.T.
1	Unknown	144.9 mVS	19.6
2	Unknown	161.9 mVS	28.6
3	Unknown	3.933 mVS	36.8
4	Unknown	43.86 mVS	44.7
5	Unknown	34.44 mVS	48.8
6	Unknown	104.7 mVS	52.9
7	Unknown	49.18 mVS	62.7
8	Benzene	67.46 ppb	72.0
9	Unknown	27.64 mVS	115.8
10	Toluene	66.50 ppb	148.8
11	MP Xylene	46.61 ppb	332.0

Notes
 Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-013PS GW

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 13:43

Sample Time: Nov 1, 94 13:35

Method

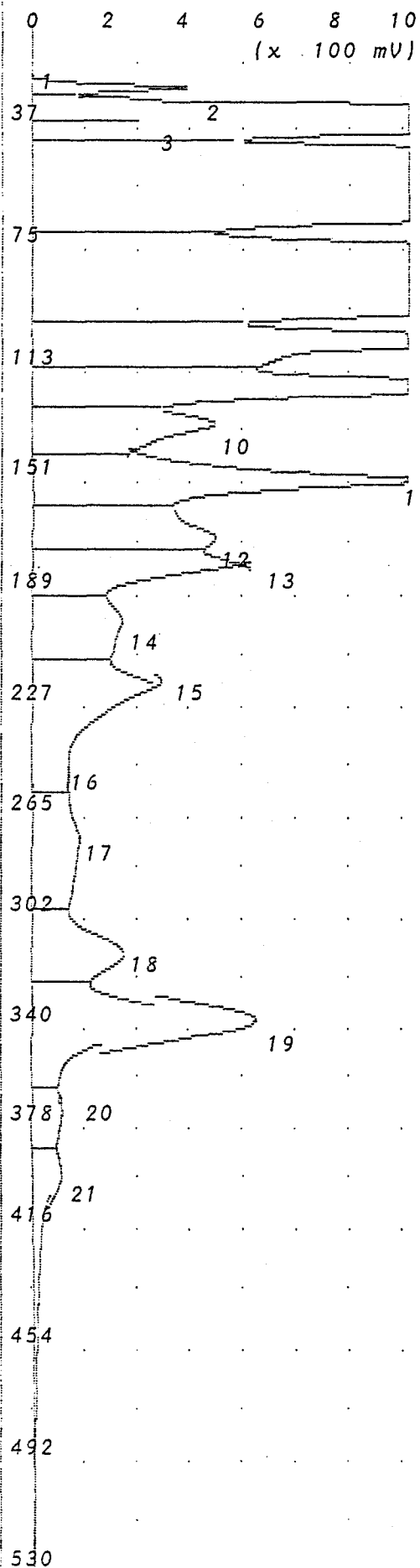
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.103 mVS	17.8
2	Unknown	23.95 mVS	19.4
3	Unknown	1.968 VSec	23.4
4	Unknown	589.4 mVS	26.8
5	Unknown	740.9 VSec	46.7
6	Unknown	491.7 VSec	95.0
7	Unknown	9.949 VSec	128.0
8	Toluene	12.37 ppm	149.2
9	Unknown	10.94 VSec	166.4
10	Unknown	13.78 VSec	170.6
11	Unknown	8.849 VSec	195.4
12	Unknown	17.45 VSec	216.4
13	Unknown	5.958 mVS	247.7
14	Unknown	10.99 VSec	271.4
15	Ethylbenzene	6.629 ppm	312.0
16	MP Xylene	83.49 ppm	335.2
17	Unknown	3.584 VSec	371.6
18	O Xylene	24.96 ppm	394.0

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-014PS GW
 2X Dilution



Time Printed: Nov 1, 94 13:55

Sample Time: Nov 1, 94 13:46

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

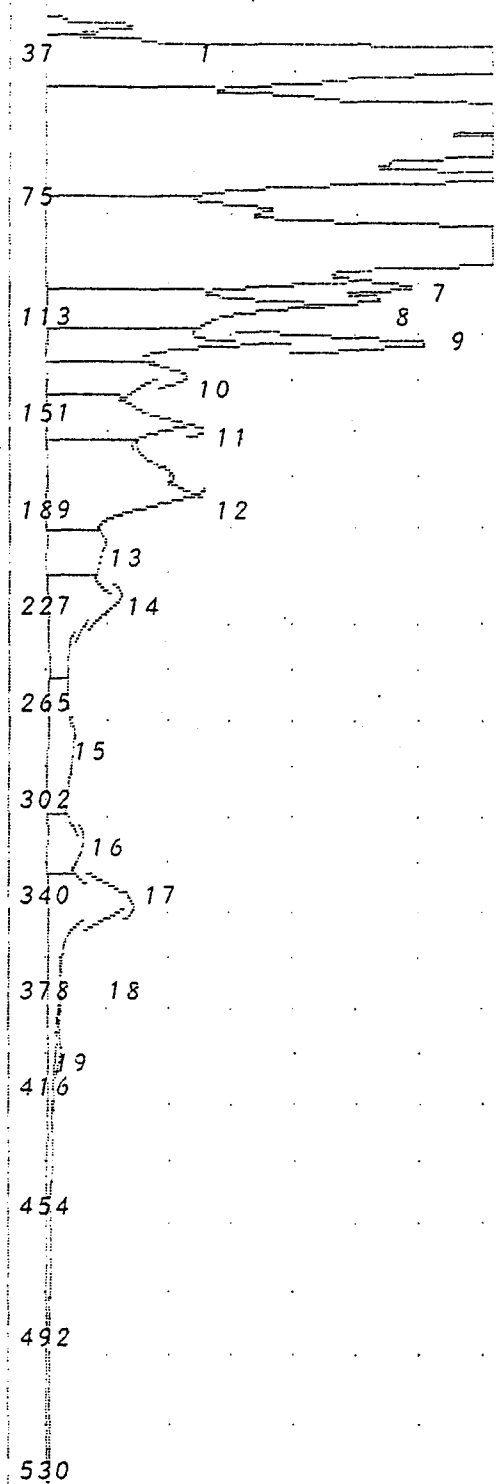
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.806 mVS	17.8
2	Unknown	1.156 VSec	23.2
3	Unknown	366.3 mVS	26.6
4	Unknown	60.72 VSec	32.6
5	Unknown	121.9 VSec	52.9
6	Benzene	1.322 ppm	72.0
7	Unknown	25.01 VSec	82.2
8	Unknown	15.75 VSec	101.3
9	Unknown	13.21 VSec	115.7
10	Unknown	5.724 VSec	127.4
11	Toluene	5.217 ppm	148.6
12	Unknown	5.873 VSec	166.0
13	Unknown	7.337 VSec	175.6
14	Unknown	4.507 VSec	194.6
15	Unknown	8.490 VSec	216.2
16	Unknown	2.417 mVS	246.1
17	Unknown	5.112 VSec	270.6
18	Ethylbenzene	1.980 ppm	311.4
19	MP Xylene	22.80 ppm	335.2
20	Unknown	1.647 VSec	371.0
21	O Xylene	10.93 ppm	393.0

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-014PS GW
 5X Dilution

0 2 4 6 8 10
(x 100 mV)



Time Printed: Nov 1, 94 16:32

Sample Time: Nov 1, 94 16:23

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 35 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

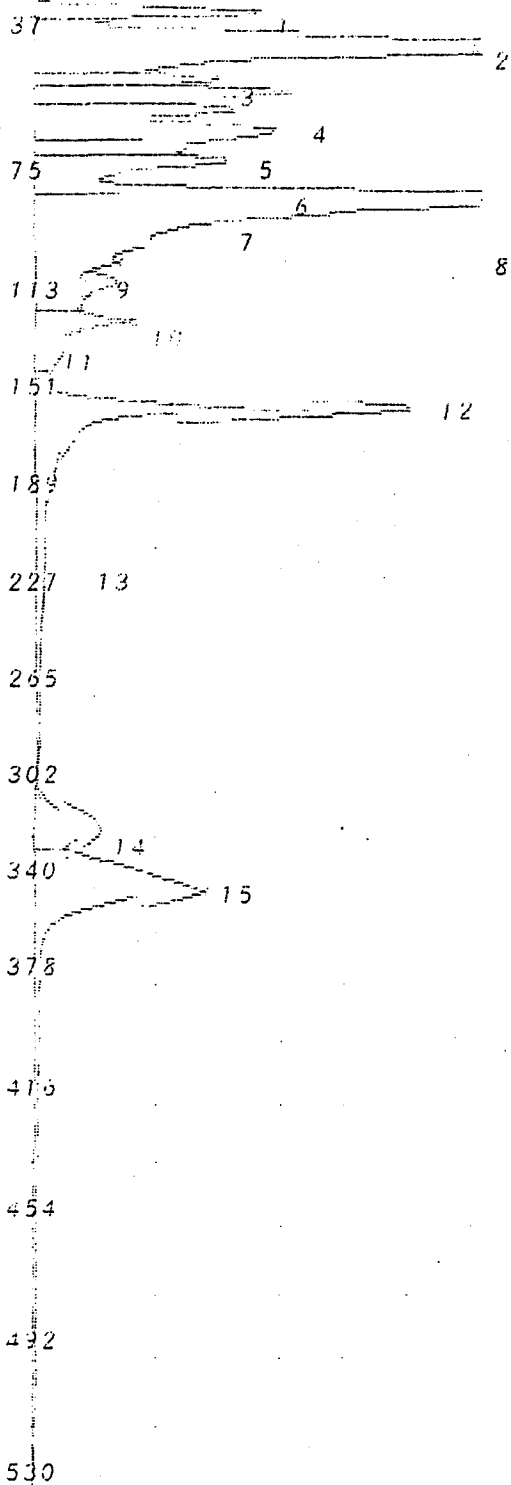
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	576.0 mVS	23.2
2	Unknown	28.36 VSec	32.5
3	Unknown	16.84 VSec	47.8
4	Unknown	14.49 VSec	55.7
5	Unknown	7.293 VSec	63.2
6	Unknown	25.45 VSec	81.6
7	Unknown	3.845 VSec	92.5
8	Unknown	6.750 VSec	101.6
9	Unknown	7.420 VSec	116.6
10	Unknown	3.534 VSec	128.5
11	Toluene	1.910 ppm	149.2
12	Unknown	7.877 VSec	176.8
13	Unknown	1.913 VSec	195.4
14	Unknown	3.966 VSec	217.2
15	Unknown	2.788 VSec	271.7
16	Ethylbenzene	601.4 ppb	312.8
17	MP Xylene	14.50 ppm	333.3
18	Unknown	65.25 mVS	371.3
19	O Xylene	263.4 ppb	394.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-015PS GW
20X Dilution

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 2, 94 15:55
Sample Time: Nov 2, 94 15:46



Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.574 VSec	27.0
2	Unknown	9.195 VSec	35.8
3	Unknown	1.228 VSec	44.7
4	Unknown	2.061 VSec	48.3
5	Unknown	1.395 VSec	52.8
6	Unknown	4.169 VSec	58.0
7	Unknown	1.524 VSec	66.1
8	Benzene	13.64 ppm	76.1
9	Unknown	289.7 mVS	104.2
10	Unknown	2.736 VSec	119.4
11	Unknown	47.87 mVS	131.0
12	Toluene	5.931 ppm	153.0
13	Unknown	34.68 mVS	219.0
14	Ethylbenzene	1.872 ppm	316.2
15	MP Xylene	23.63 ppm	340.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-016PS GW
2x Dilution

Analysis #21 103+ GC Function Analysis Report

0 4 8 12 16 20
 (x 10 mV)

Time Printed: Nov 2.94 14:23

Sample Line: Nov 2.94 14:14

Method

Slope up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.970 VSec	21.8
2	Unknown	687.3 mVS	54.0
3	Unknown	5.321 mVS	62.8
4	Toluene	18.95 ppb	149.2

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-017PS GW

37

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492

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 2.94 14:11

Sample Time: Nov 2.94 14:02

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

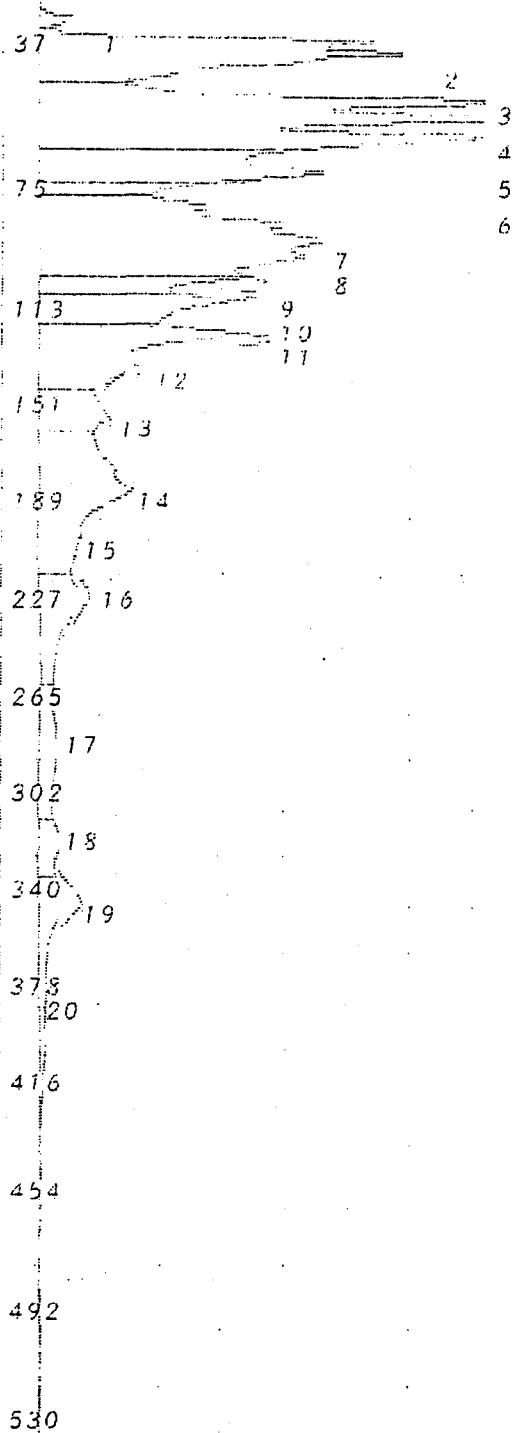
Pe	Compound Name	Area/Conc	R.T.
1	Unknown	243.5 mVS	24.2
2	Unknown	6.653 VSec	33.2
3	Unknown	2.389 VSec	46.1
4	Unknown	2.400 VSec	46.8
5	Unknown	3.855 VSec	50.3
6	Unknown	5.925 VSec	55.3
7	Unknown	4.294 VSec	64.1
8	Unknown	10.61 VSec	82.1
9	Unknown	3.327 VSec	93.2
10	Unknown	4.282 VSec	102.4
11	Unknown	7.714 VSec	117.4
12	Unknown	174.9 mVS	129.0
13	Toluene	949.7 ppb	149.0
14	Unknown	6.494 VSec	177.8
15	Unknown	48.51 mVS	195.0
16	Unknown	2.941 VSec	218.6
17	Unknown	1.749 VSec	273.0
18	Ethylbenzene	439.0 ppb	314.6
19	MP Xylene	7.878 ppm	338.3
20	O Xylene	41.75 ppb	372.6

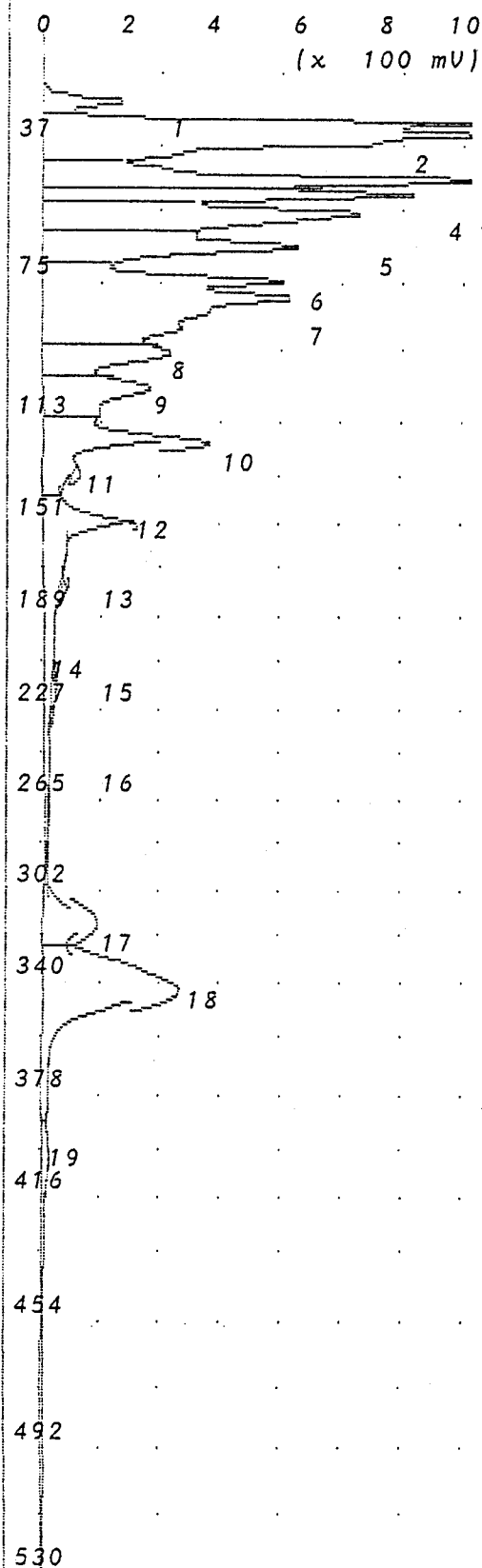
Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
04-018PS GW

20x Dilution





Time Printed: Oct 28, 94 12:00

Sample Time: Oct 28, 94 11:46

Method

Slope Up 0.500 mV/Sec
 Slope Down 0.500 mV/Sec
 Min Area 200.0 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

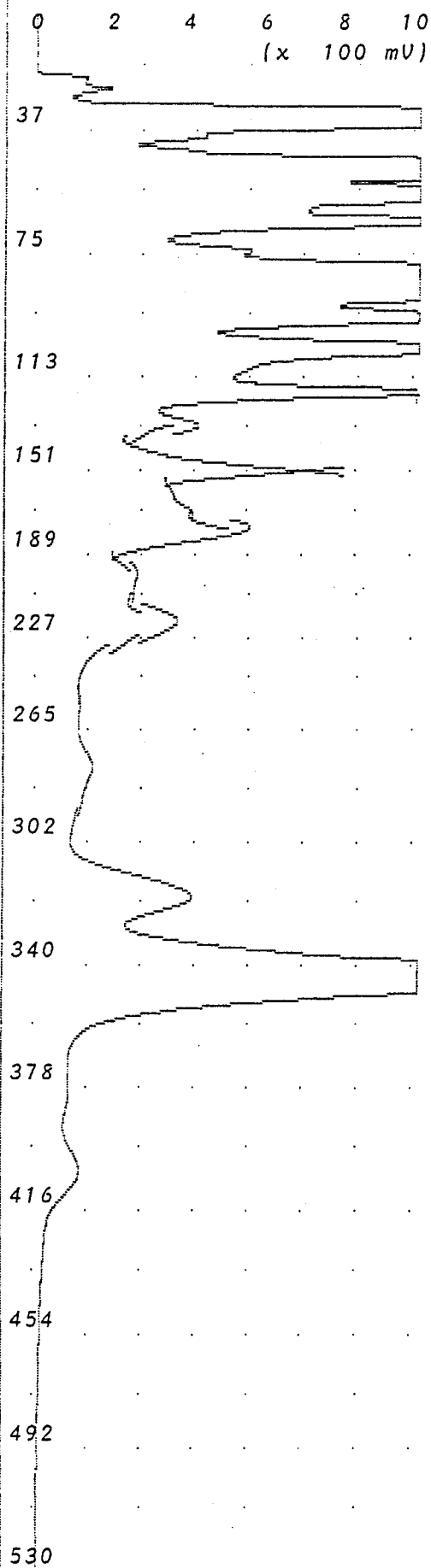
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	699.2 mVS	23.2
2	Unknown	10.56 VSec	30.2
3	Unknown	5.037 VSec	45.2
4	Unknown	2.562 VSec	49.2
5	Unknown	4.323 VSec	54.4
6	Unknown	3.337 VSec	63.2
7	Benzene	5.312 ppm	77.2
8	Unknown	1.838 VSec	92.2
9	Unknown	1.993 VSec	101.8
10	Unknown	4.012 VSec	117.2
11	Unknown	77.26 mVS	128.4
12	Toluene	4.113 ppm	150.0
13	Unknown	128.7 mVS	177.8
14	Unknown	27.31 mVS	206.0
15	Unknown	135.2 mVS	217.8
16	Unknown	50.69 mVS	253.3
17	Ethylbenzene	2.837 ppm	315.4
18	MP Xylene	19.93 ppm	340.6
19	O Xylene	6.997 ppm	400.3

Notes

Mark Escobar
 Billy Mitchell Air
 National Guard Base
 04-019PS GW

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 15:15

Sample Time: Oct 27,94 15:06

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

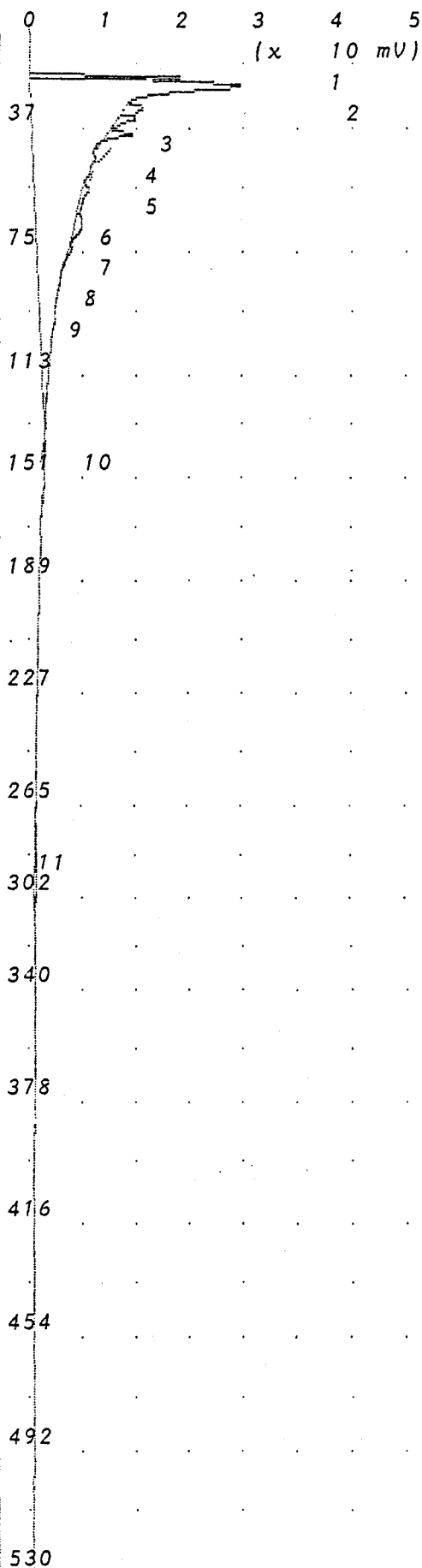
Peak Report

Pk	Compound Name	Area/Conc	R.T.
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Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-020PS GW

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 13:29

Sample Time: Oct 29, 94 13:20

Method

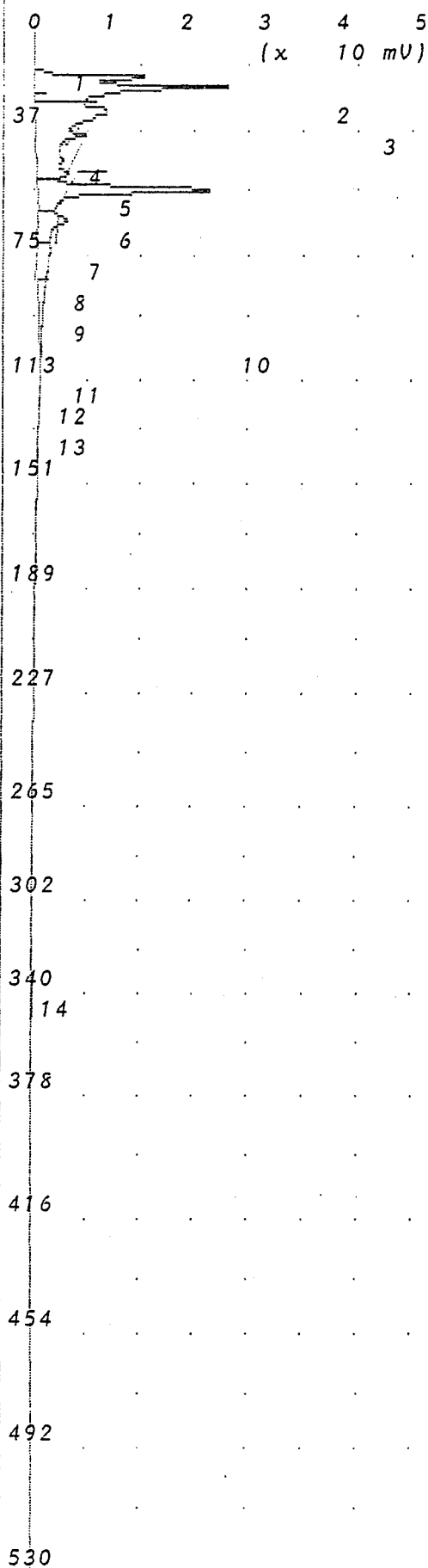
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	30.70 mVS	19.8
2	Unknown	585.1 mVS	21.4
3	Unknown	7.054 mVS	29.0
4	Unknown	5.245 mVS	32.5
5	Unknown	6.462 mVS	37.2
6	Unknown	2.407 mVS	44.6
7	Unknown	4.585 mVS	54.2
8	Unknown	6.120 mVS	63.6
9	Benzene	0.784 ppb	72.5
10	Toluene	0.114 ppb	136.8
11	Ethylbenzene	3.945 ppb	286.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-021PS GW



Time Printed: Oct 28, 94 11:44

Sample Time: Oct 28, 94 11:35

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 200.0 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.212 mVS	17.9
2	Unknown	27.58 mVS	19.4
3	Unknown	166.9 mVS	22.2
4	Unknown	0.182 mVS	26.8
5	Unknown	5.126 mVS	28.8
6	Unknown	10.65 mVS	30.0
7	Unknown	4.426 mVS	36.6
8	Unknown	1.313 mVS	44.5
9	Unknown	3.529 mVS	48.5
10	Unknown	72.76 mVS	53.7
11	Unknown	22.50 mVS	62.6
12	Unknown	7.035 mVS	71.8
13	Unknown	20.55 mVS	76.0
14	Unknown	4.964 mVS	339.0

Notes

Mark Escobar
 Billy Mitchell Air
 National Guard Base
 04-023PS GW

Analysis #30 10S+ GC Function Analysis Report

0 1 2 3 4 5
x 10 mV

Time Printed: Nov 2,94 16:36

Sample Time: Nov 2,94 16:27

Method

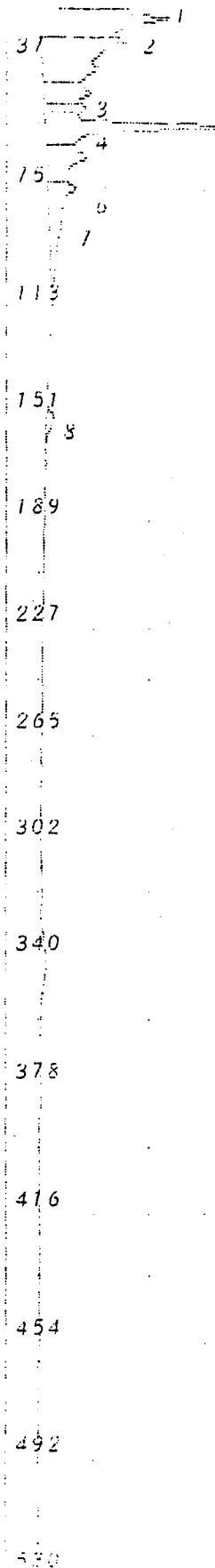
Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
S/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 10 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	111.0 mVS	22.0
2	Unknown	102.2 mVS	29.2
3	Unknown	32.74 mVS	44.7
4	Unknown	15.13 mVS	49.3
5	Unknown	80.02 mVS	54.0
6	Unknown	39.50 mVS	63.5
7	Benzene	23.92 ppb	72.8
8	Toluene	4.780 ppb	149.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-024PS GW



Time Started: Nov 1, 94 14:44

1X 10 mV

Sample Time: Nov 1, 94 14:44

Method

Slope Up 2.000 mV/Sec
Slope Down 2.000 mV/Sec
Min Area 2.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	84.16 mVS	19.9
2	Unknown	69.59 mVS	28.8
3	Unknown	31.83 mVS	44.8
4	Toluene	248.1 ppb	149.6
5	Unknown	71.70 mVS	436.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-024PS GW

Analysis #31

TOS+ GC Evaluation Worksheet Report

0 1 2

3 4 5

Time Printed: Nov 2, 94 16:47

(x 10 mV)

Sample Time: Nov 2, 94 16:38

Method

Slope Up 3.000 mV/Sec

Slope Down 3.000 mV/Sec

Min Area 1.000 mVSec

Min Height 1.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 10 mL/min

B/F Flow 10 mL/min

Aux Flow 0 mL/min

Oven Temp 40 C

Amb Temp 34 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	114.9 mVS	22.4
2	Unknown	137.3 mVS	29.0
3	Unknown	76.40 mVS	53.7
4	Unknown	80.78 mVS	63.0
5	Toluene	65.85 ppb	149.8

37

2

75

4

113

151

5

189

227

265

302

340

378

416

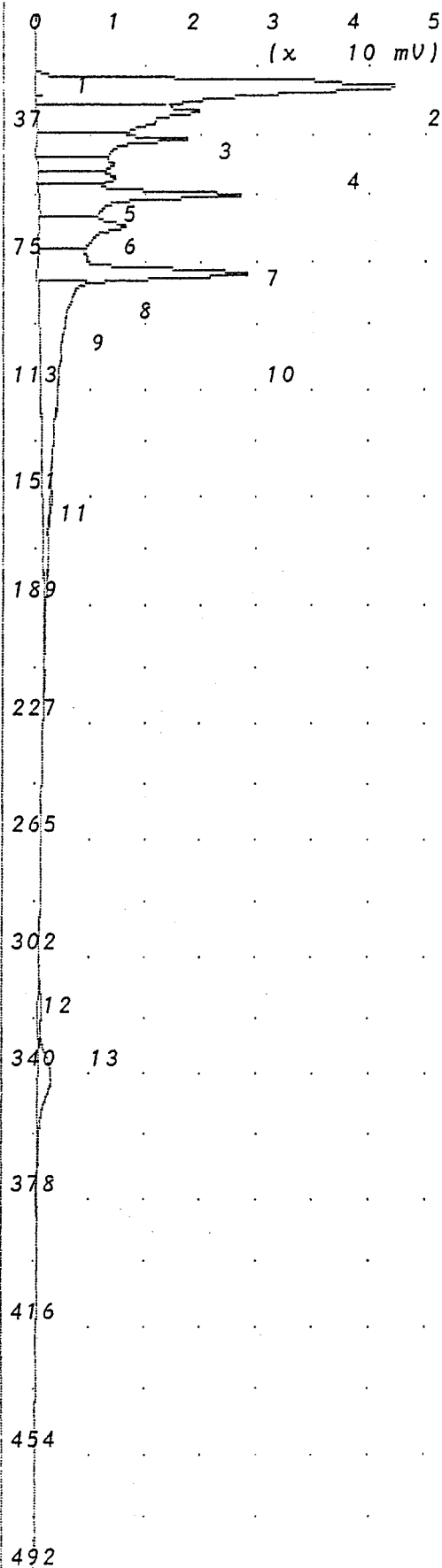
454

492

530

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-024PS GW



Time Printed: Oct 28, 94 11:32

Sample Time: Oct 28, 94 11:23

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 200.0 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

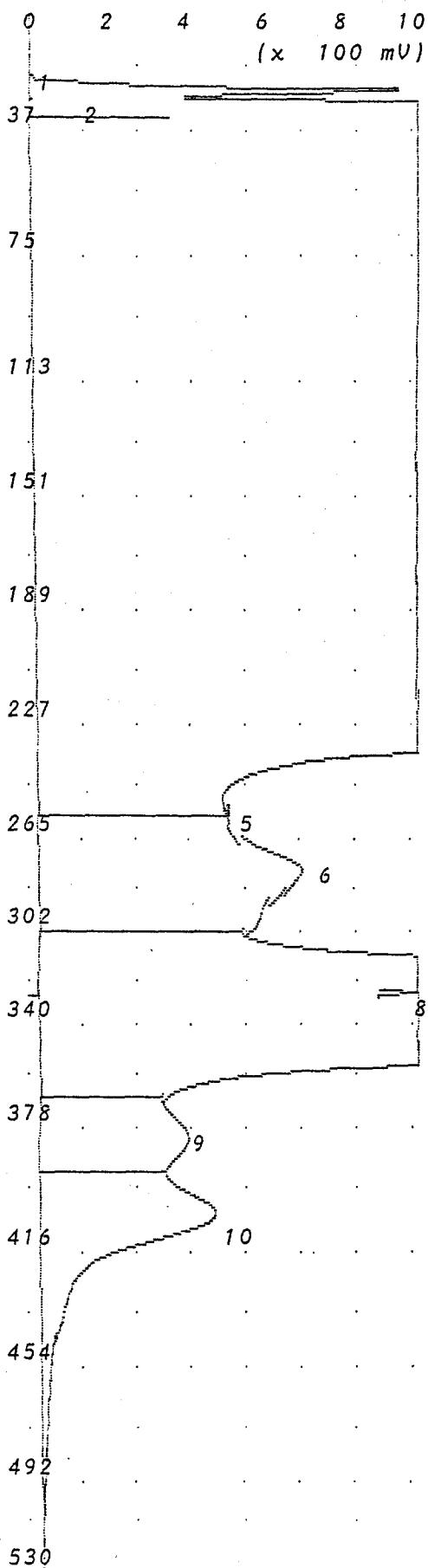
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.732 mVS	18.2
2	Unknown	268.9 mVS	21.6
3	Unknown	122.9 mVS	28.8
4	Unknown	85.61 mVS	36.6
5	Unknown	41.43 mVS	44.2
6	Unknown	38.76 mVS	48.6
7	Unknown	116.7 mVS	53.8
8	Unknown	81.68 mVS	62.7
9	Unknown	18.89 mVS	72.0
10	Unknown	297.0 mVS	75.4
11	Unknown	1.001 mVS	149.4
12	Unknown	5.169 mVS	314.6
13	Unknown	28.22 mVS	333.8

Notes

Mark Escobar
 Billy Mitchell Air
 National Guard Base
 04-027PS GW

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 27, 94 14:24

Sample Time: Oct 27, 94 14:15

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

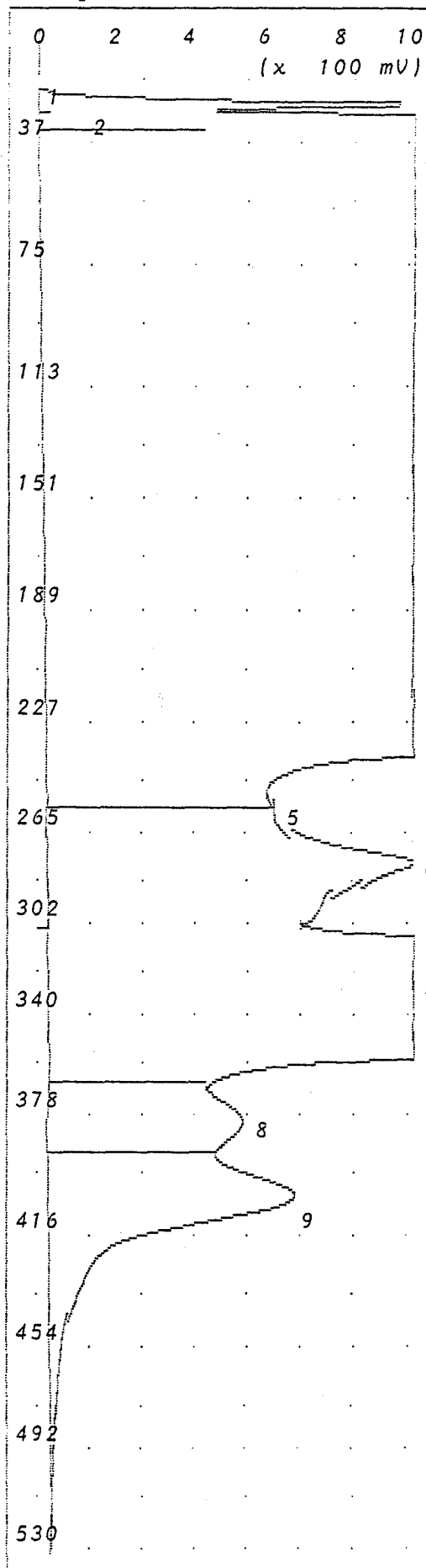
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.168 mVS	17.9
2	Unknown	11.77 mVS	19.3
3	Unknown	2.754 VSec	23.3
4	Unknown	6424. VSec	89.8
5	Unknown	28.52 mVS	252.8
6	Unknown	28.53 VSec	275.7
7	Ethylbenzene	14.93 ppm	318.4
8	MP Xylene	47.35 ppm	328.2
9	Unknown	8.211 VSec	379.0
10	O Xylene	45.63 ppm	402.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
~~2A/2C Split Spoon (EQ)~~
04-028PS GW

MB

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 27, 94 15:00

Sample Time: Oct 27, 94 14:51

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

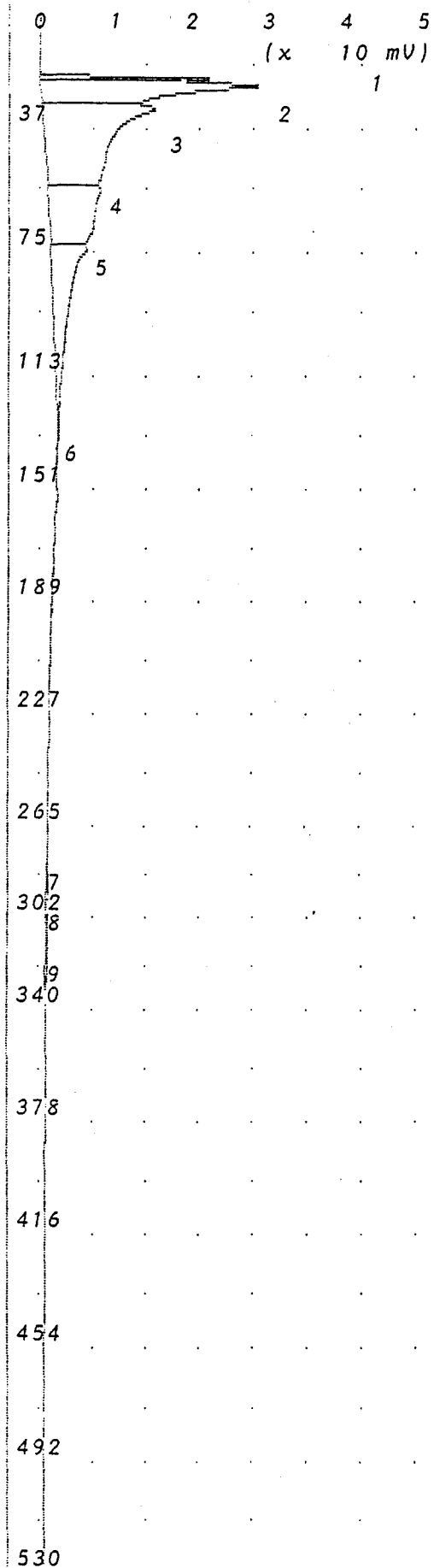
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.288 mVS	17.7
2	Unknown	36.67 mVS	19.2
3	Unknown	3.342 VSec	23.6
4	Unknown	6622. VSec	90.9
5	Unknown	26.49 mVS	253.0
6	Unknown	36.92 VSec	275.4
7	MP Xylene	227.7 PPM2	329.6
8	Unknown	10.88 VSec	378.6
9	O Xylene	65.34 PPM2	401.6

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-028PS GW



Time Printed: Oct 29, 94 12:55

Sample Time: Oct 29, 94 12:46

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	34.00 mVS	19.8
2	Unknown	139.3 mVS	22.0
3	Unknown	239.1 mVS	29.0
4	Unknown	110.1 mVS	54.2
5	Benzene	74.21 ppb	72.8
6	Unknown	0.075 mVS	131.8
7	Unknown	1.497 mVS	282.1
8	Unknown	0.290 mVS	300.2
9	Ethylbenzene	4.758 ppb	317.3

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-030PS GW

0 4 8 12 16 20
x 1000 mV

Time Printed: Nov 4.94 15:05

Sample Name: Nov 4.94 14:56

Method

Slope Up 2.000 mV/Sec
Slope Down 2.000 mV/Sec
Min Area 2.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	437.0 mVS	22.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-030PS GW

37
75
113
151
189
227
265
302
340
378
416
454
492
530

0 1 2 3 4 5
(x 10 mV)

Time Printed: Nov 2, 94 16:23

Sample Time: Nov 2, 94 16:14

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amp Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	224.4 mVS	19.8
2	Unknown	0.537 mVS	28.9
3	Unknown	6.304 mVS	44.1
4	Unknown	66.45 mVS	54.0
5	Unknown	54.06 mVS	63.2
6	Toluene	9.747 ppb	147.8

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-031PS GW

31

75

113

151

189

227

265

302

340

378

416

454

492

530

0 1 2 3 4 5
 (x 10 mV)

Time Printed: Nov 3, 94 11:54

Sample Time: Nov 3, 94 11:46

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pr	Compound Name	Area/Conc	R.T.
1	Unknown	0.352 mVS	18.4
2	Unknown	10.26 mVS	19.9
3	Unknown	42.33 mVS	22.8
4	Unknown	37.38 mVS	29.3
5	Unknown	21.96 mVS	37.2
6	Unknown	8.959 mVS	45.0
7	Unknown	14.49 mVS	49.3
8	Unknown	94.01 mVS	53.6
9	Benzene	43.73 ppb	63.3
10	Toluene	2.497 ppb	149.2

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-033PS GW

530

0 1 2 3 4 5
 (x 10 mV)

Time Printed: Nov 3, 94 13:25

Sample Time: Nov 3, 94 13:16

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

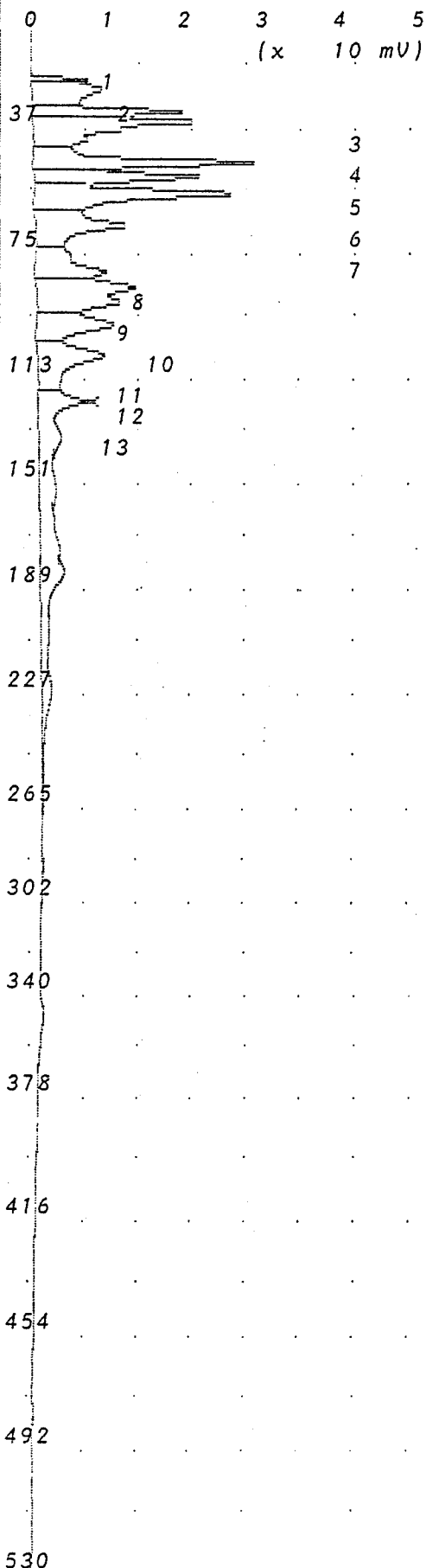
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	0.104 mVS	18.5
2	Unknown	10.98 mVS	19.6
3	Unknown	23.99 mVS	22.6
4	Unknown	27.69 mVS	29.1
5	Unknown	0.092 mVS	32.1
6	Unknown	20.00 mVS	37.1
7	Unknown	6.031 mVS	45.1
8	Unknown	11.54 mVS	49.4
9	Unknown	79.06 mVS	53.9
10	Benzene	37.67 ppb	63.5
11	Toluene	2.541 ppb	150.4

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-034PS GW

Analysis #30 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 16:08
 Sample Time: Oct 29,94 15:56
 Method
 Slope Up 1.000 mV/Sec
 Slope Down 1.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 3.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 30 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	13.77 mVS	20.6
2	Unknown	49.63 mVS	23.4
3	Unknown	46.93 mVS	29.8
4	Unknown	104.8 mVS	32.6
5	Unknown	98.24 mVS	45.0
6	Unknown	64.28 mVS	49.6
7	Unknown	104.6 mVS	54.3
8	Unknown	73.95 mVS	64.5
9	Benzene	10.83 ppb	78.4
10	Unknown	103.9 mVS	83.0
11	Unknown	58.18 mVS	94.2
12	Unknown	71.45 mVS	103.8
13	Unknown	254.4 mVS	119.3

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-035PS GW

0 1 2 3 4 5
ix 10 mV

Time Printed: Nov 3, 94 14:15

Sample Time: Nov 3, 94 14:06

Method

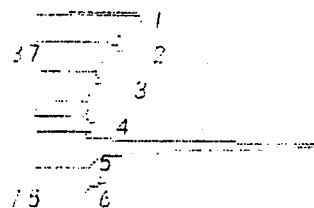
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
S/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pr	Compound Name	Area/Conc	R.T.
1	Unknown	21.38 mVS	20.2
2	Unknown	73.10 mVS	22.9
3	Unknown	67.22 mVS	29.2
4	Unknown	49.92 mVS	37.6
5	Unknown	21.67 mVS	45.2
6	Unknown	27.76 mVS	49.7
7	Unknown	119.7 mVS	53.9
8	Benzene	112.8 ppb	63.7
9	Toluene	14.41 ppb	150.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-036PS GW



113

150

189

227

265

302

340

378

416

454

492

530

0 1 2 3 4 5
(x 10 mV)

Time Printed: Nov 3.94 14:53
Sample Time: Nov 3.94 14:44

Method

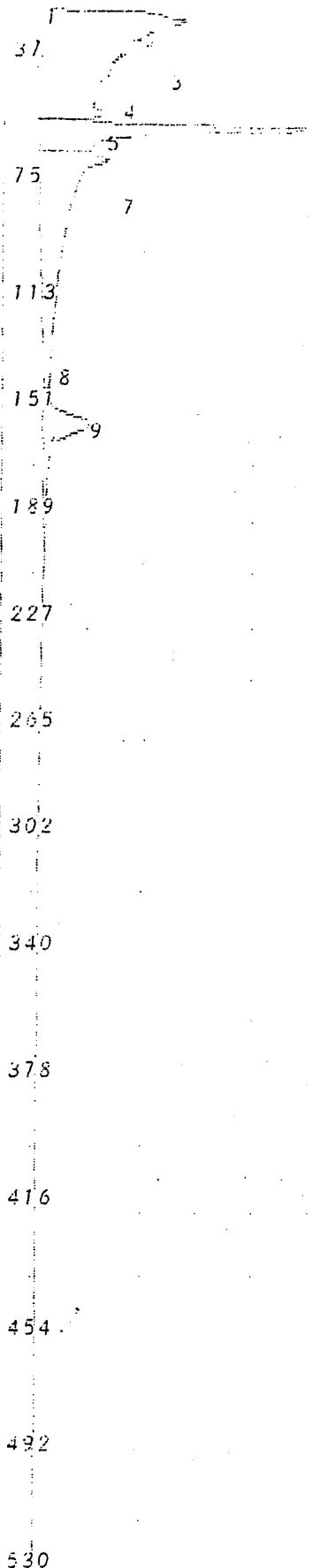
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

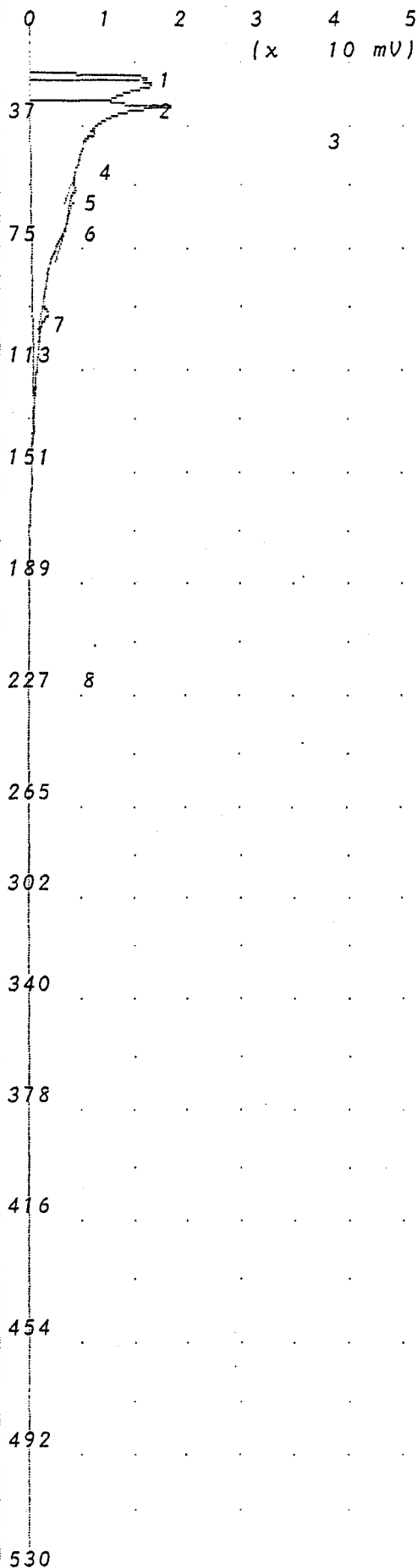
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.227 mVS	18.6
2	Unknown	358.5 mVS	22.6
3	Unknown	6.234 mVS	29.3
4	Unknown	1.671 mVS	37.5
5	Unknown	3.966 mVS	50.0
6	Unknown	138.9 mVS	54.0
7	Benzene	135.1 ppb	64.0
8	Unknown	0.387 mVS	132.1
9	Toluene	90.24 ppb	151.8

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
01-037PS GW





Time Printed: Oct 29, 94 15:06

Sample Time: Oct 29, 94 14:57

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

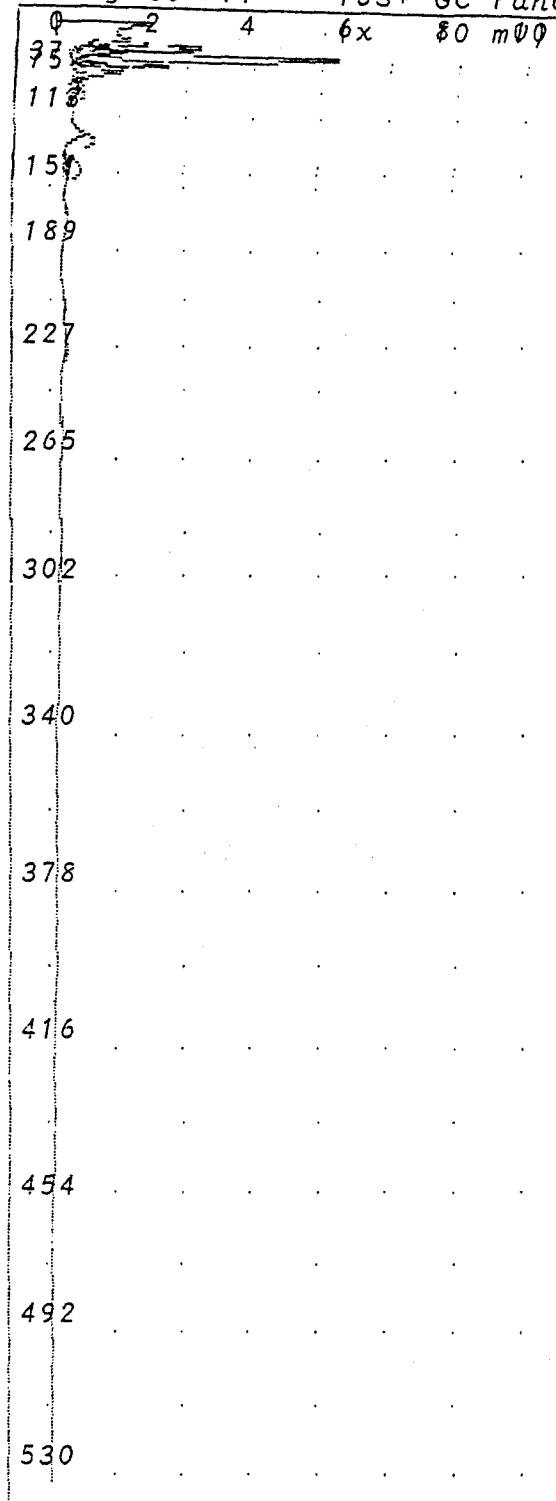
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	36.54 mVS	20.4
2	Unknown	88.43 mVS	22.4
3	Unknown	390.5 mVS	29.5
4	Unknown	1.187 mVS	37.8
5	Unknown	0.350 mVS	51.8
6	Unknown	9.863 mVS	54.8
7	Unknown	3.021 mVS	93.7
8	Unknown	1.684 mVS	215.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS GW

Analysis #11

10S+ GC Function Analysis Report



Sample Printed: 21, 94 14:08

Abundance: 0.000 mV/sec

Flow Rate: 1.0 ml/min

Oven Temp: 40 C

Ph: ~~ABRABARR~~ NRmak Re: ~~ABRABARR~~ Cofec R.T

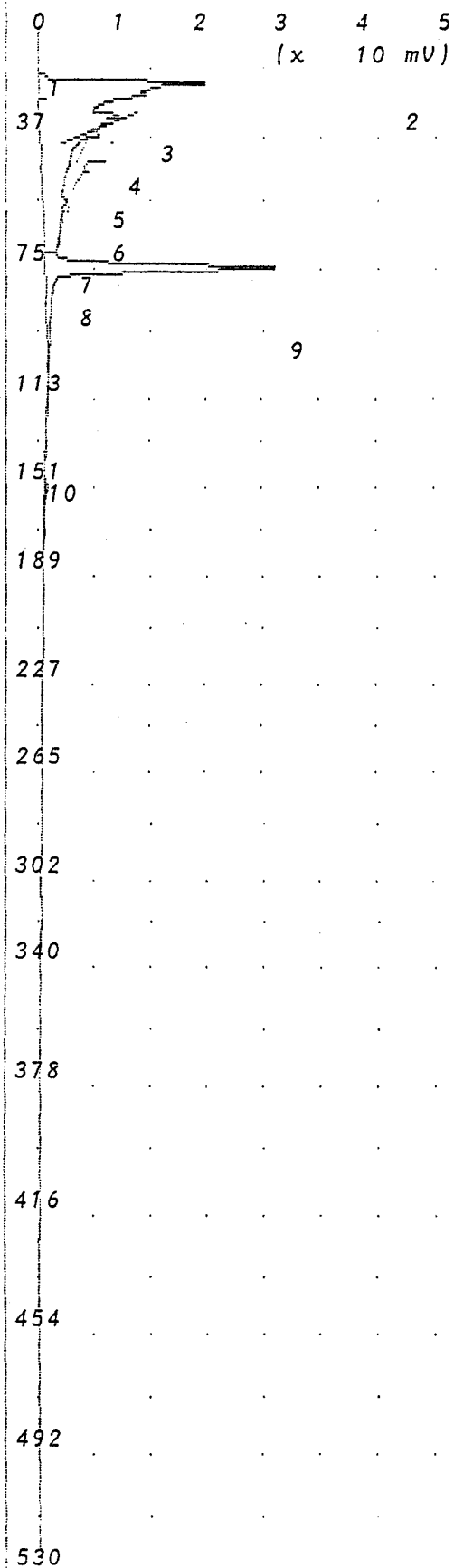
Notes

Mark Escobar

Billy Mitchell Air National

Guard Base

04-001PS 1'-3'



Time Printed: Oct 21, 94 14:32

Sample Time: Oct 21, 94 14:23

Method

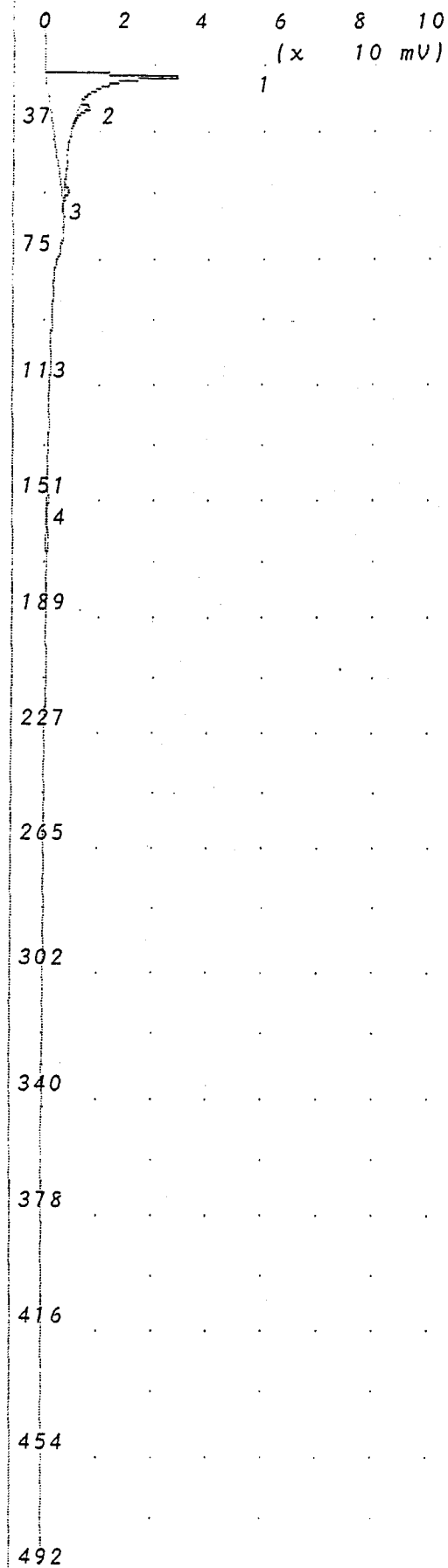
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.669 mVS	18.1
2	Unknown	243.9 mVS	19.4
3	Unknown	2.701 mVS	23.3
4	Unknown	6.873 mVS	29.1
5	Unknown	5.878 mVS	31.1
6	Unknown	4.512 mVS	34.8
7	Unknown	0.190 mVS	43.8
8	Unknown	2.323 mVS	54.0
9	Benzene	40.40 ppb	72.8
10	Toluene	1.097 ppb	151.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-001PS 5'-7'



Time Printed: Oct 21, 94 10:04

Sample Time: Oct 21, 94 09:55

Method

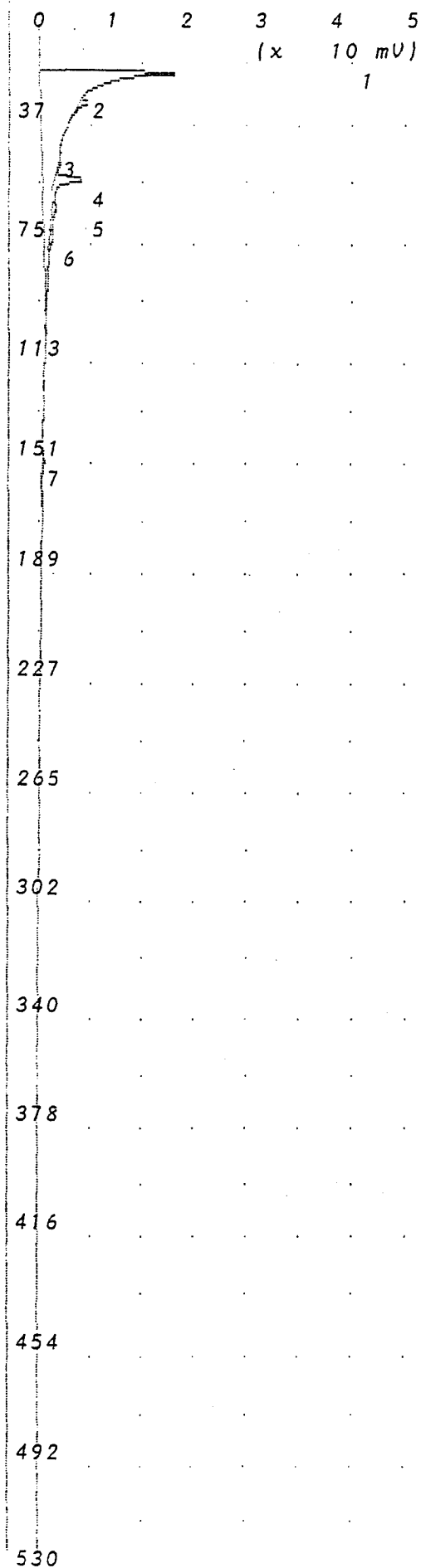
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	254.0 mVS	18.6
2	Unknown	6.340 mVS	28.4
3	Unknown	3.279 mVS	53.2
4	Toluene	3.439 ppb	149.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-002PS 1'-3'



Time Printed: Oct 21,94 10:15

Sample Time: Oct 21,94 10:06

Method

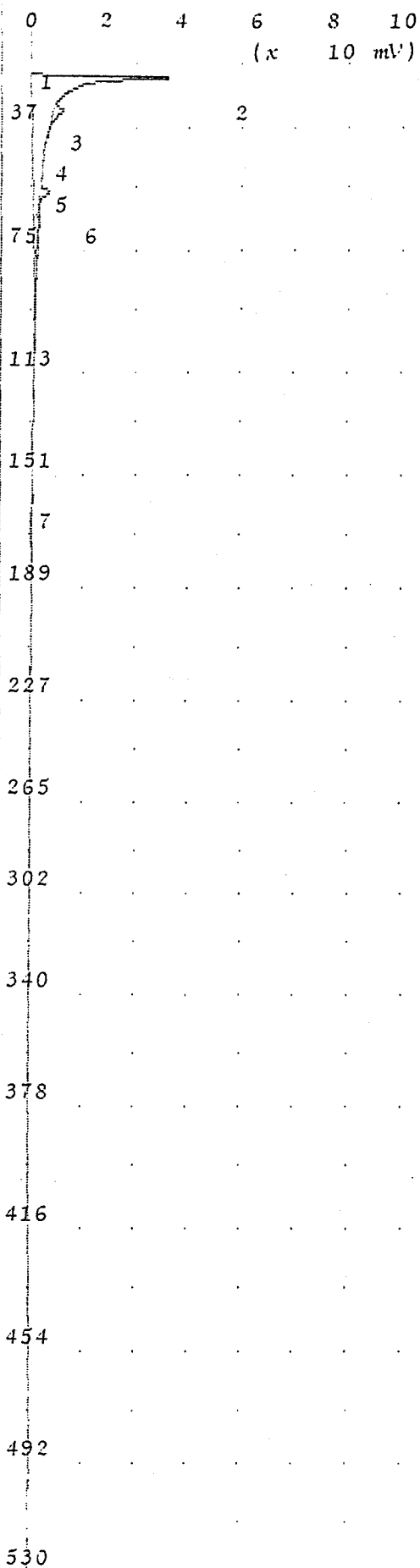
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	217.3 mVS	18.6
2	Unknown	2.335 mVS	28.2
3	Unknown	0.442 mVS	47.3
4	Unknown	9.768 mVS	52.8
5	Unknown	2.624 mVS	61.6
6	Benzene	2.586 ppb	70.9
7	Toluene	3.241 ppb	148.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-002PS 5'-7'



Time Printed: Oct 20,94 16:33

Sample Time: Oct 20,94 16:24

Method

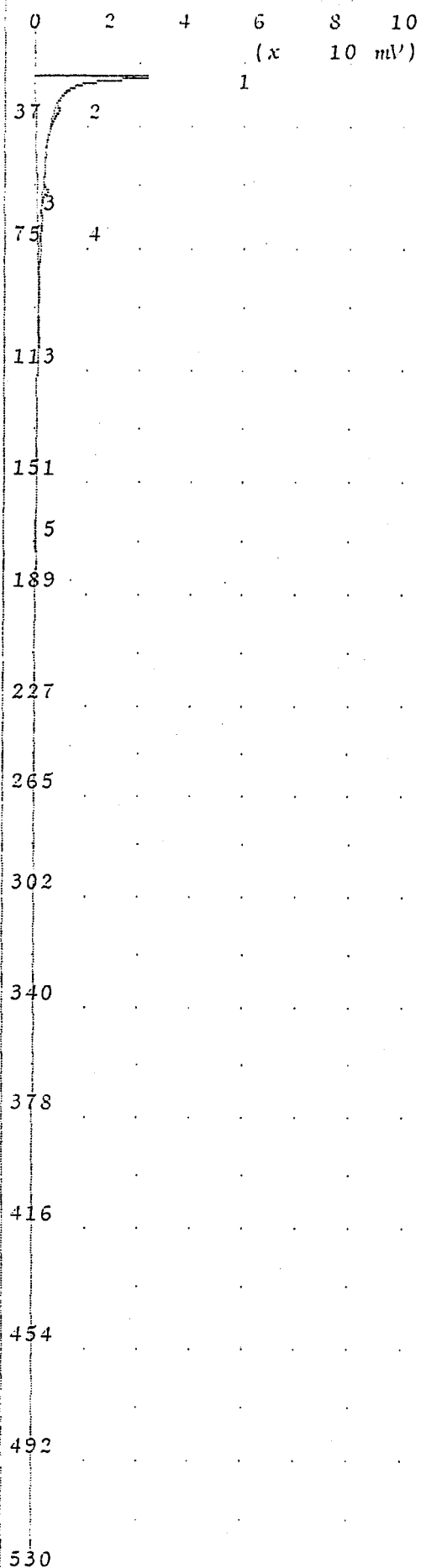
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mV/Sec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.189 mVS	18.5
2	Unknown	278.0 mVS	19.7
3	Unknown	7.543 mVS	30.2
4	Unknown	0.522 mVS	37.6
5	Unknown	6.073 mVS	55.5
6	Unknown	0.664 mVS	64.5
7	Toluene	3.354 ppb	156.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-003PS 1'-3'



Time Printed: Oct 20, 94 16:44

Sample Time: Oct 20, 94 16:35


Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	248.7 mVS	19.8
2	Unknown	3.288 mVS	30.4
3	Unknown	3.504 mVS	55.8
4	Unknown	0.457 mVS	64.9
5	Unknown	0.991 mVS	157.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-003PS 1 
5'-7'

Analysis #13 105+ GC Function Analysis Report

0 4 5 12 16 20
1000 nbl

Time Printed: Nov 2.94 14:46
Sample Time: Nov 2.94 14:37

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

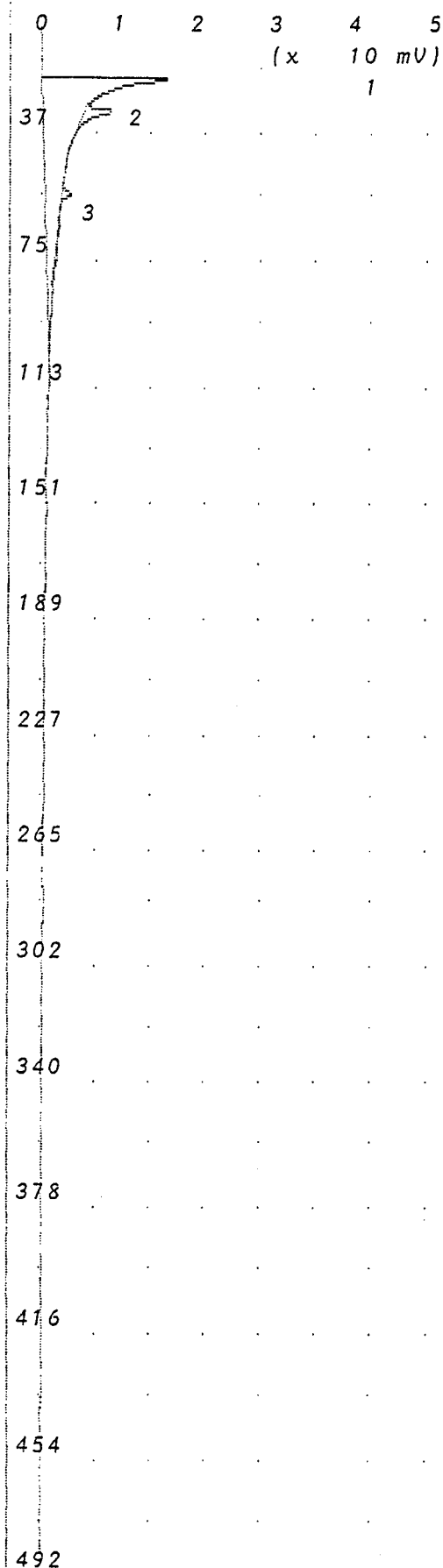
Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	62.82 mVS	27.2
2	Unknown	33.79 mVS	36.1

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-004PS 1'-3'

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 16:43

Sample Time: Oct 21, 94 16:34

Method

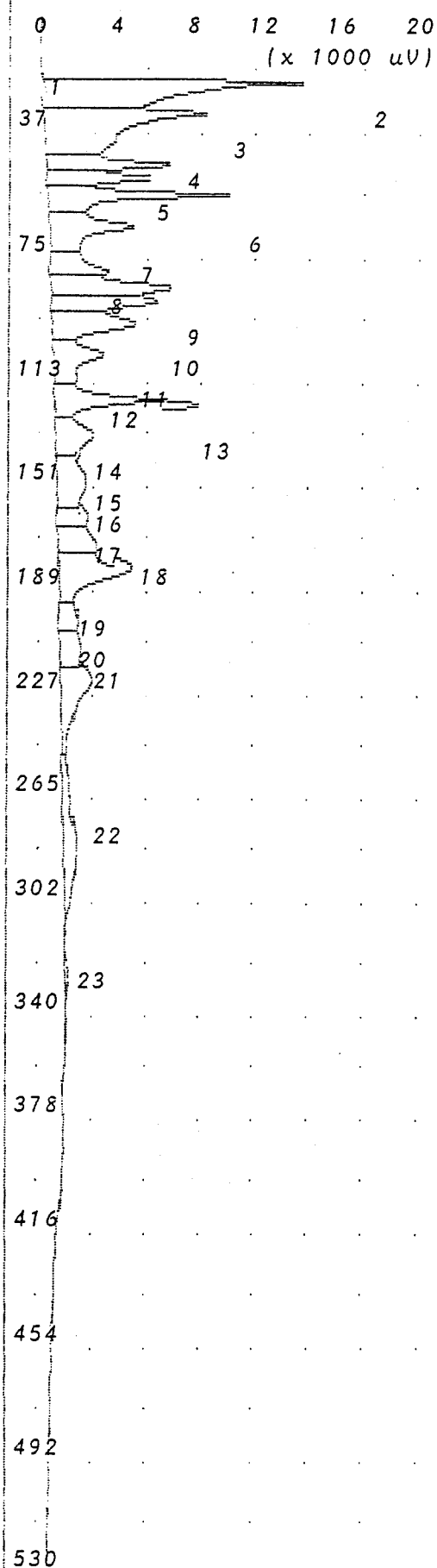
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 30 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	242.8 mVS	19.4
2	Unknown	8.895 mVS	28.9
3	Unknown	3.522 mVS	53.8

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-005PS 1'-3'



Time Printed: Oct 21, 94 16:54

Sample Time: Oct 21, 94 16:45

Method

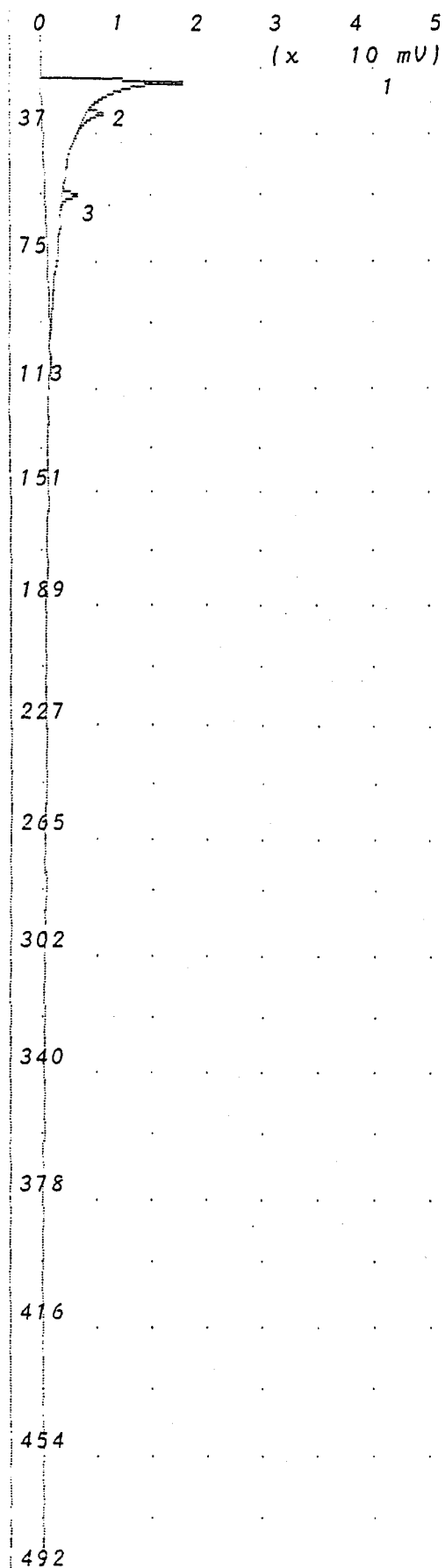
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.127 mVS	18.2
2	Unknown	72.90 mVS	19.6
3	Unknown	68.44 mVS	29.0
4	Unknown	22.32 mVS	44.8
5	Unknown	18.79 mVS	48.8
6	Unknown	32.87 mVS	54.0
7	Unknown	30.54 mVS	63.3
8	Benzene	8.059 ppb	77.0
9	Unknown	27.60 mVS	82.0
10	Unknown	22.42 mVS	86.1
11	Unknown	27.36 mVS	92.9
12	Unknown	22.15 mVS	102.4
13	Unknown	46.73 mVS	117.7
14	Unknown	21.96 mVS	130.0
15	Toluene	14.93 ppb	147.6
16	Unknown	12.82 mVS	161.2
17	Unknown	15.66 mVS	169.6
18	Unknown	41.64 mVS	179.4
19	Unknown	11.35 mVS	196.6
20	Unknown	11.37 mVS	207.6
21	Unknown	28.82 mVS	220.0
22	Unknown	27.96 mVS	269.8
23	Ethylbenzene	2.560 ppb	324.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-005PS 5'-7'



Time Printed: Oct 21, 94 14:43

Sample Time: Oct 21, 94 14:34

Method

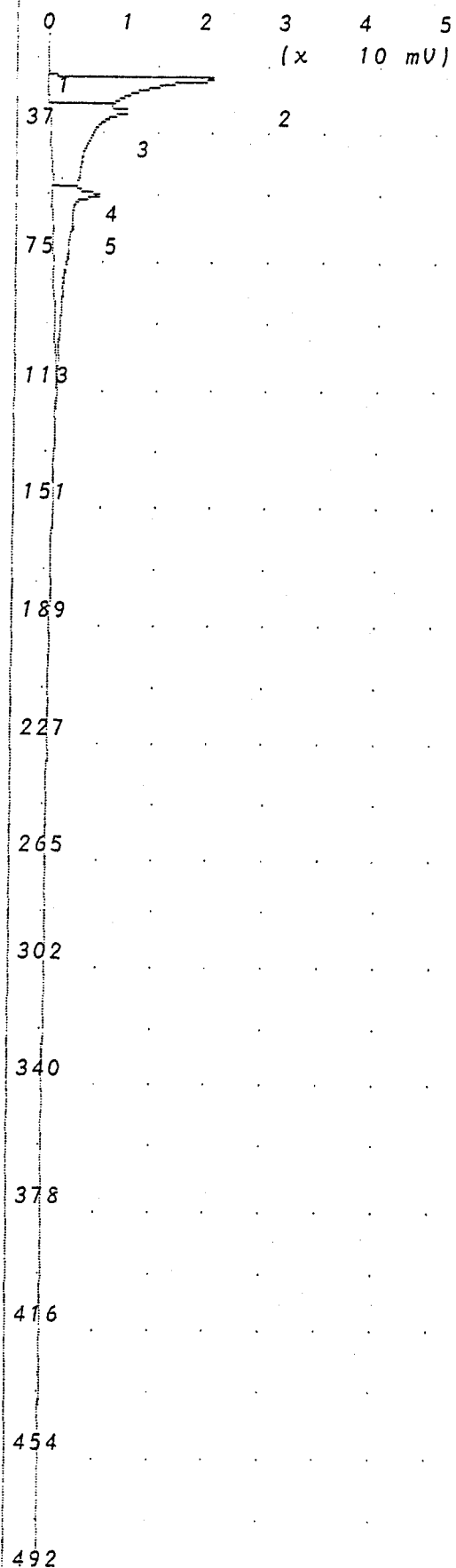
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	245.9 mVS	19.6
2	Unknown	4.916 mVS	29.2
3	Unknown	4.114 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-006PS 1'-3'



Time Printed: Oct 21, 94 14:54

Sample Time: Oct 21, 94 14:45

Method

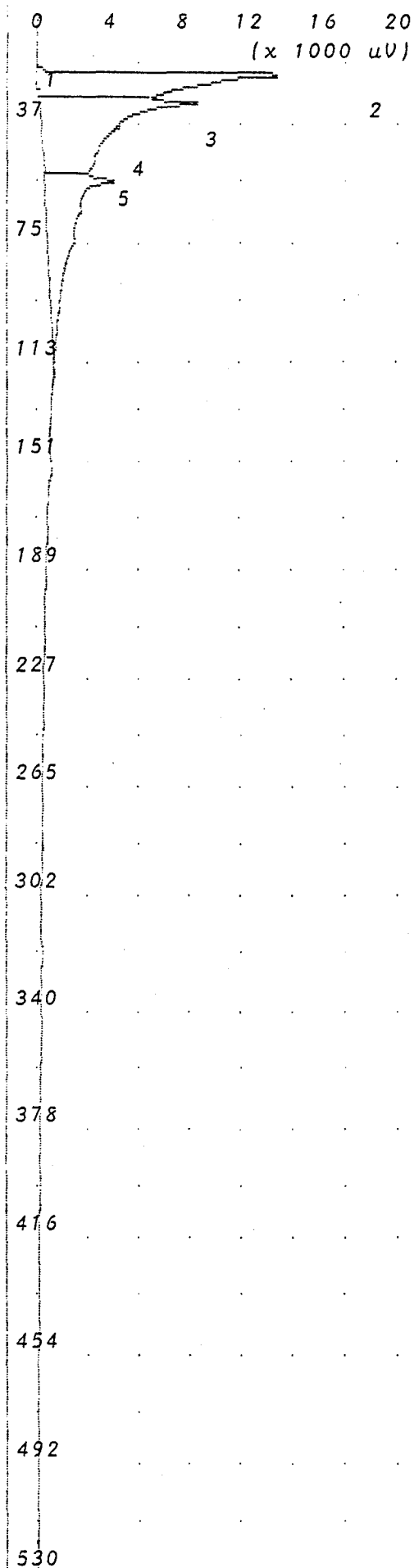
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.142 mVS	18.1
2	Unknown	115.3 mVS	19.2
3	Unknown	125.0 mVS	28.9
4	Unknown	89.49 mVS	53.8
5	Unknown	0.383 mVS	62.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-006PS 5'-7'



Time Printed: Oct 24, 94 16:51

Sample Time: Oct 24, 94 16:42

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

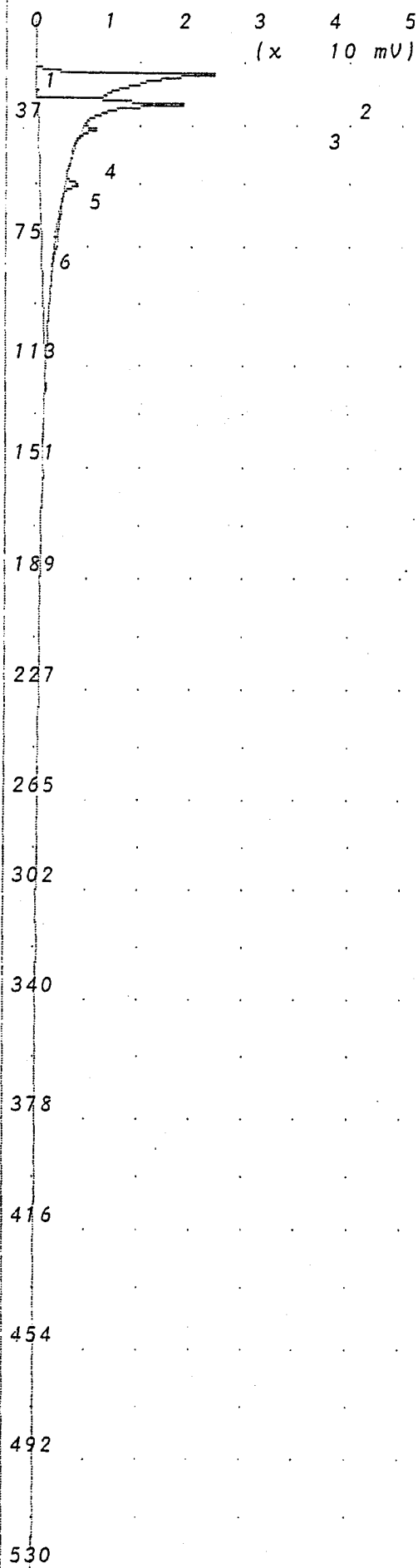
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.383 mVS	17.9
2	Unknown	80.90 mVS	19.4
3	Unknown	102.1 mVS	28.7
4	Unknown	0.295 mVS	36.4
5	Unknown	69.30 mVS	53.9

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-007PS 1'-3'

Analysis #8

10S+ GC Function Analysis Report



Time Printed: Oct 24,94 17:02

Sample Time: Oct 24,94 16:53

Method

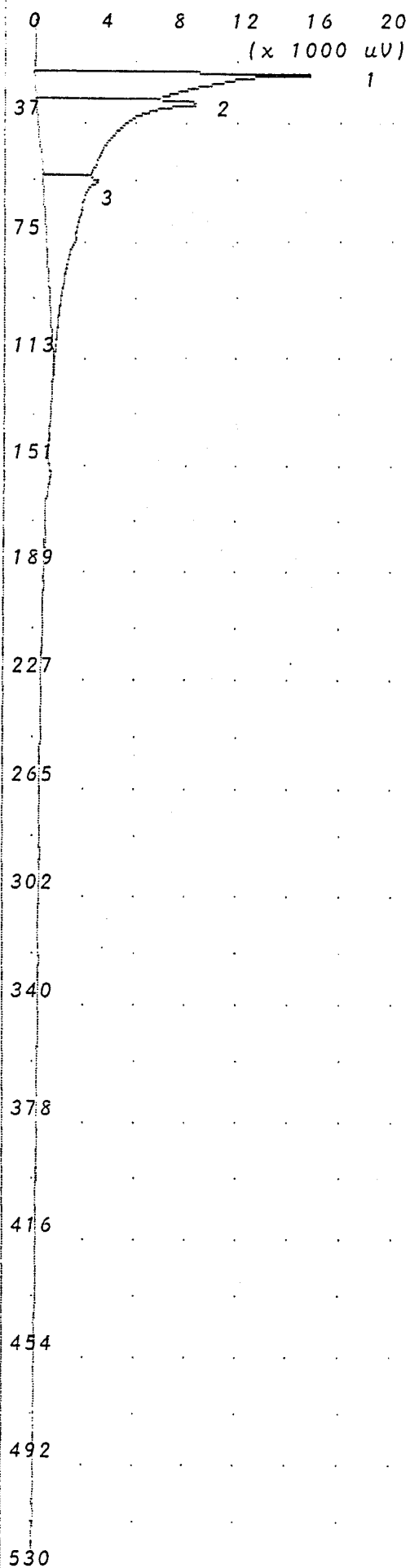
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.838 mVS	17.8
2	Unknown	120.7 mVS	19.0
3	Unknown	267.2 mVS	28.4
4	Unknown	1.075 mVS	36.6
5	Unknown	5.433 mVS	53.8
6	Benzene	0.469 ppb	72.5

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-007PS 5'-7'



Time Printed: Oct 24,94 17:13

Sample Time: Oct 24,94 17:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	88.57 mVS	19.6
2	Unknown	114.2 mVS	29.0
3	Unknown	73.33 mVS	54.0

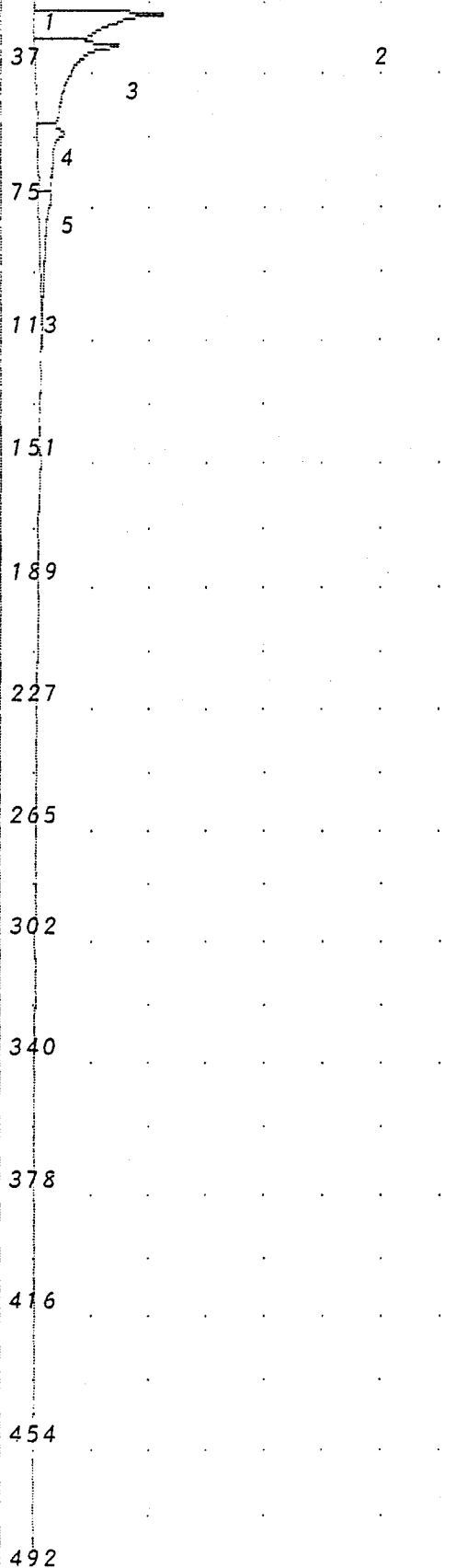
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-008PS 1'-3'

Analysis #8

10S+ GC Function Analysis Report

0 1 2 3 4 5
(x 10 mV)



Time Printed: Oct 25, 94 12:16

Sample Time: Oct 25, 94 12:07

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

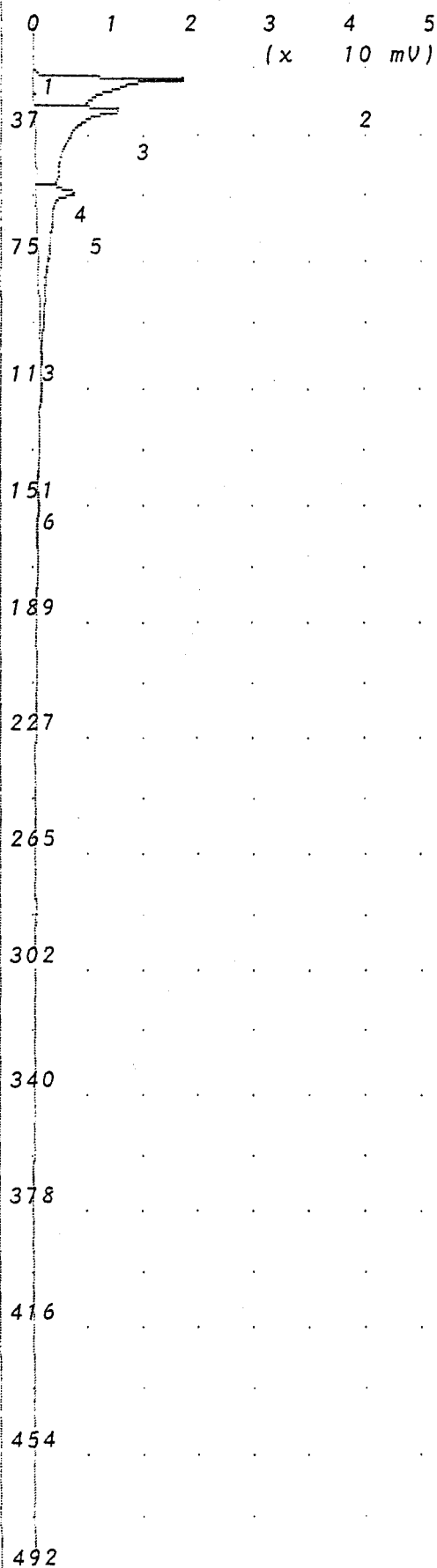
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.283 mVS	17.5
2	Unknown	84.86 mVS	18.8
3	Unknown	103.4 mVS	28.0
4	Unknown	37.62 mVS	52.5
5	Benzene	8.649 ppb	70.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-008PS 5'-7'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 25, 94 13:14
 Sample Time: Oct 25, 94 13:05
 Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

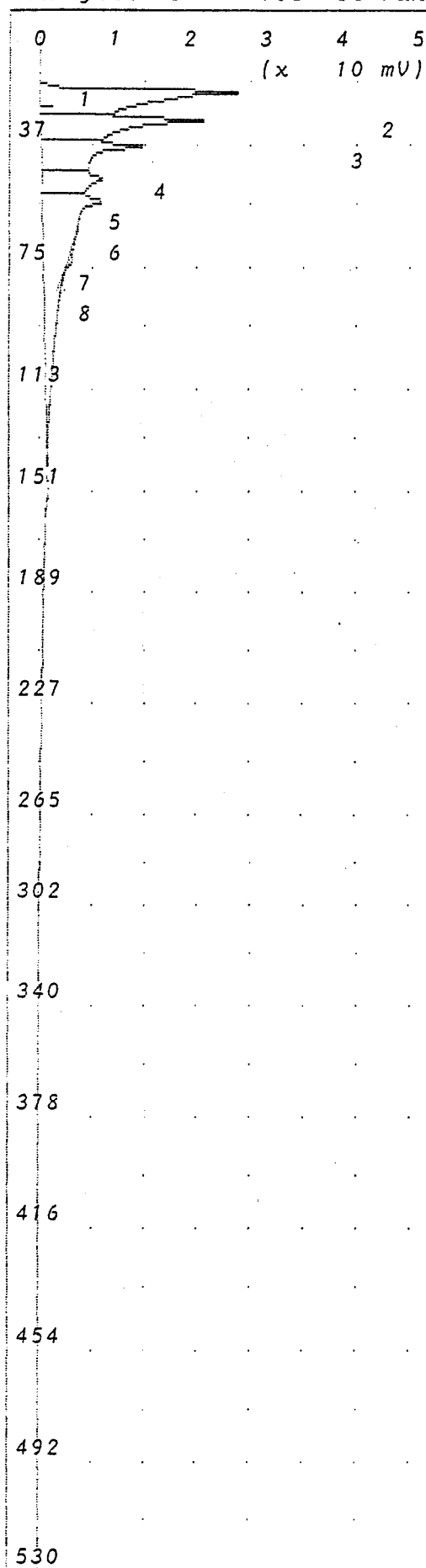
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.949 mVS	17.4
2	Unknown	89.63 mVS	18.8
3	Unknown	111.2 mVS	28.2
4	Unknown	72.80 mVS	52.9
5	Unknown	0.553 mVS	61.4
6	Toluene	1.134 ppb	148.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-009PS 5'-7'

Analysis #5

10S+ GC Function Analysis Report



Time Printed: Oct 26, 94 12:07

Sample Time: Oct 26, 94 11:58

Method

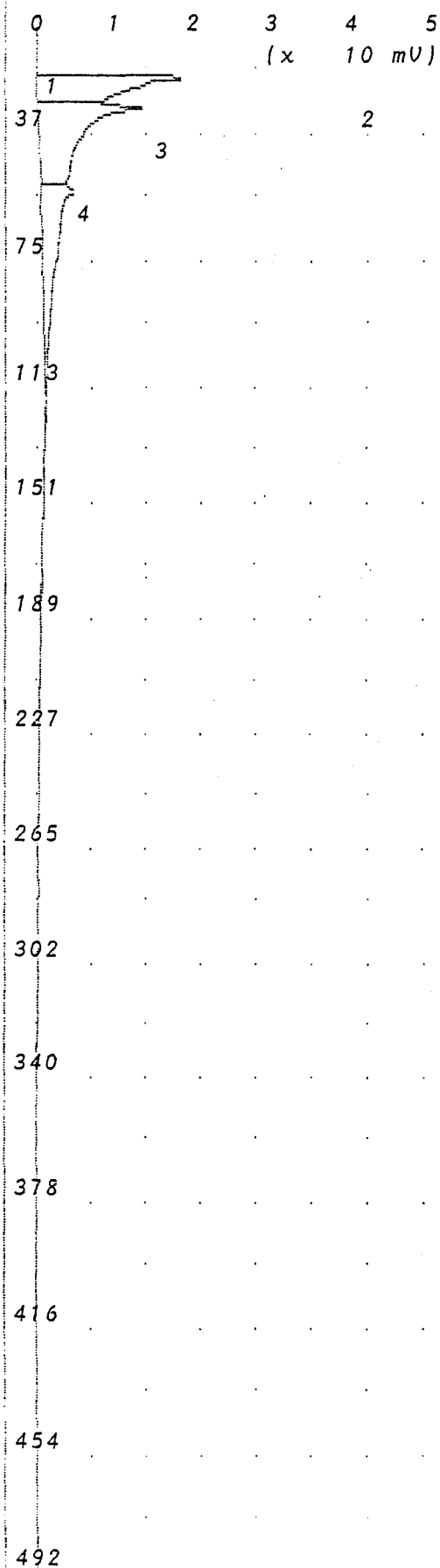
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.689 mVS	17.1
2	Unknown	135.8 mVS	18.4
3	Unknown	101.9 mVS	27.4
4	Unknown	76.82 mVS	35.9
5	Unknown	44.99 mVS	45.8
6	Unknown	183.2 mVS	52.8
7	Unknown	1.852 mVS	61.8
8	Benzene	1.061 ppb	70.9

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 1'-3'



Time Printed: Oct 26, 94 12:19

Sample Time: Oct 26, 94 12:10

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

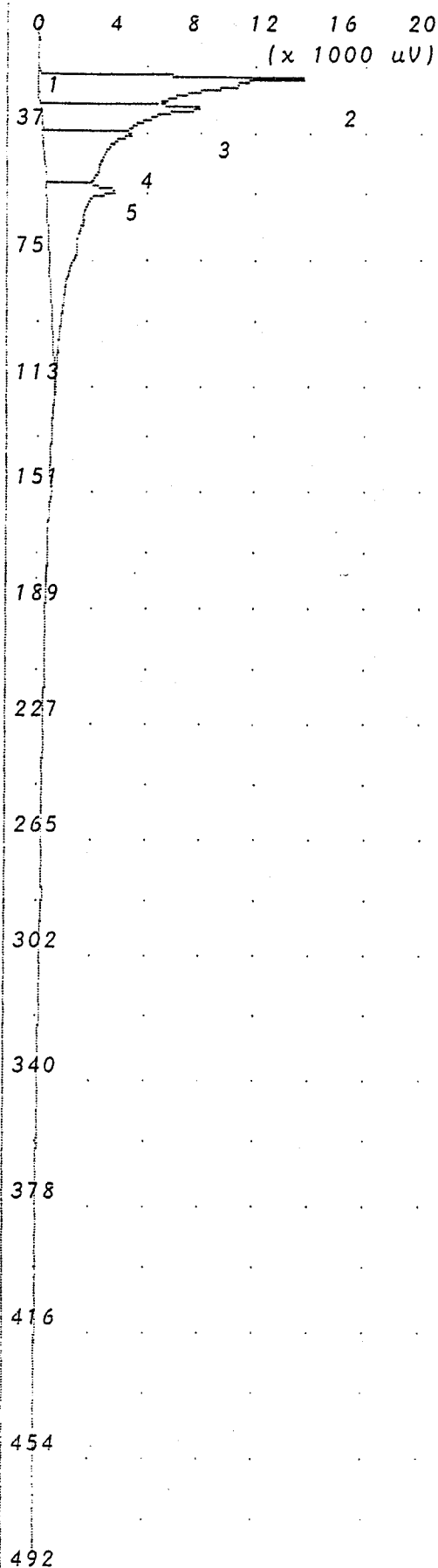
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.135 mVS	17.2
2	Unknown	109.0 mVS	18.5
3	Unknown	142.5 mVS	27.8
4	Unknown	98.31 mVS	52.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 3'-5' Duplicate

Analysis #7

10S+ GC Function Analysis Report



Time Printed: Oct 26, 94 12:30

Sample Time: Oct 26, 94 12:21

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.138 mVS	17.7
2	Unknown	79.21 mVS	18.9
3	Unknown	48.39 mVS	28.1
4	Unknown	51.03 mVS	35.8
5	Unknown	65.83 mVS	52.7

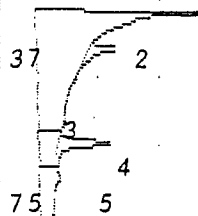
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 5'-7'

Analysis #8

10S+ GC Function Analysis Report

0 1 2 3 4 5
(x 10 mV)
1



Time Printed: Oct 26, 94 12:41

Sample Time: Oct 26, 94 12:32

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	184.8 mVS	19.0
2	Unknown	7.632 mVS	28.2
3	Unknown	0.756 mVS	47.4
4	Unknown	34.22 mVS	53.1
5	Unknown	49.43 mVS	62.1

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 8'-10'

Analysis No. 1611111111 Analysis Report

0 8 12 16 20
X 1111111111

Time Printed: Nov 2, 94 09:33
Sample Time: Nov 2, 94 09:24

Method

Flow Up 0.500 mL/Sec
Flow Down 1.500 mL/Sec
Min Flow 1.000 mL/Sec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Inlet Temp 10 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	23.10 mVS	19.4
2	Unknown	63.01 mVS	21.3
3	Unknown	50.27 mVS	28.2
4	Unknown	23.73 mVS	36.1
5	Unknown	4.629 mVS	43.1
6	Unknown	11.78 mVS	46.1
7	Unknown	7.222 mVS	53.4
8	Unknown	0.042 mVS	62.1
9	Unknown	1.450 mVS	62.1
10	Unknown	1.111 mVS	271.4

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-011PS 5'-7'

37
75
113
151
189
227
265
302
340
378
416
454
492
530

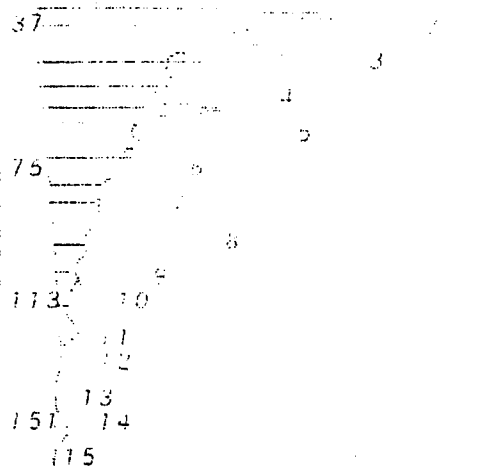
0 2 4 6 8 10

Time Printed: Nov 2.94 09:46

12.000000

Sample Time: Nov 2.94 09:37

Method



Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 L.F. Flow 12 mL/min
 Max Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

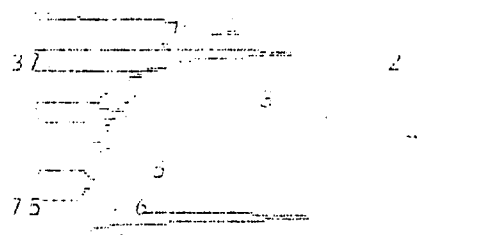
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	16.84 mVS	19.3
2	Unknown	41.66 mVS	21.0
3	Unknown	26.98 mVS	28.2
4	Unknown	14.29 mVS	32.6
5	Unknown	24.59 mVS	36.2
6	Unknown	15.65 mVS	44.0
7	Unknown	10.09 mVS	48.2
8	Unknown	24.28 mVS	53.2
9	Unknown	22.83 mVS	62.2
10	Benzene	2.447 ppb	75.3
11	Unknown	10.28 mVS	79.7
12	Unknown	4.548 mVS	90.9
13	Unknown	5.053 mVS	99.3
14	Unknown	3.414 mVS	114.2
15	Toluene	1.880 ppb	146.4
16	Unknown	3.320 mVS	215.7
17	p-Hydrobenzene	1.315 ppb	301.7
18	m-Xylene	10.92 ppb	331.7

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-012PS 1'-3'

0 1 2 3 4 5 Time Printer: Nov 2.94 09:58
 (x 10 mv) Sample Time: Nov 2.94 09:49



Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Amp 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Data 1000
 Acquisition Time 530.0 sec

Peak Report		
PK	Compound Name	Area/Height R.F.
1	Unknown	23.10 mVS 19.6
2	Unknown	29.12 mVS 21.3
3	Unknown	93.05 mVS 23.0
4	Unknown	197.7 mVS 27.7
5	Unknown	2.052 mVS 34.2
6	Unknown	42.56 mVS 44.2
7	Unknown	33.43 mVS 48.0
8	Unknown	54.05 mVS 53.4
9	Unknown	44.01 mVS 62.0
10	Benzene	107.1 ppb 71.3
11	Unknown	0.932 mVS 90.0
12	Unknown	1.138 mVS 99.0
13	Unknown	3.334 mVS 114.1
14	Toluene	1.591 ppb 145.2
15	Unknown	1.982 mVS 270.4
16	Ethylbenzene	0.399 ppb 308.8
17	MP Xylene	4.755 ppb 328.5

Notes

Elly Mitchell Air National
 Guard Station
 Mark Escobar
 04-012PS 5'-7'

Analysis #9 10-11-77 Function Response Report

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

37 175 113 157 189 227 265 302 340 378 416 454 492 530

Start Time 0.500 mV/Sec
 Stop Time 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 RIF Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

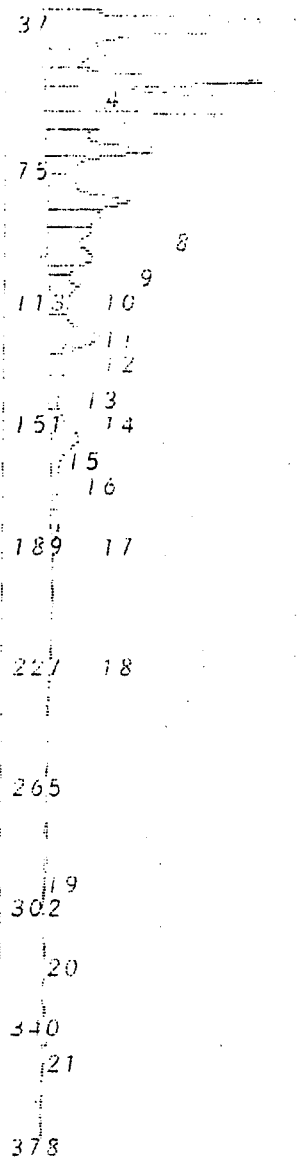
Peak Report

PK	Compound Name	Area/Conc	P.T.
1	Unknown	17.02 mVS	19.8
2	Unknown	40.89 mVS	21.5
3	Unknown	79.27 mVS	28.6
4	Unknown	0.700 mVS	44.2
5	Unknown	40.60 mVS	53.9
6	Toluene	1.254 ppb	147.4
7	Unknown	1.402 mVS	212.8
8	MP Xylene	3.488 ppb	332.8

Notes

Elmer Mitchell Air National
 Guard Station
 40th Escadrille
 01-112PS 11-21

0 1 2 3 4 5 Time Printed: Nov 2, 94 10:46
 6 7 8 9 10 Sample Time: Nov 2, 94 10:57



11 12 13 14 15 16 17 18 19 20 21
 22 23 24 25 26 27 28 29 30 31 32
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 44 45 46 47 48 49 50 51 52 53 54
 55 56 57 58 59 60 61 62 63 64 65
 66 67 68 69 70 71 72 73 74 75 76
 77 78 79 80 81 82 83 84 85 86 87
 88 89 90 91 92 93 94 95 96 97 98
 99 100 101 102 103 104 105 106 107 108 109
 110 111 112 113 114 115 116 117 118 119 120
 121 122 123 124 125 126 127 128 129 130 131
 132 133 134 135 136 137 138 139 140 141 142
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 616 617 618 619 620 621 622 623 624 625 626
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 638 639 640 641 642 643 644 645 646 647 648
 649 650 651 652 653 654 655 656 657 658 659
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 704 705 706 707 708 709 710 711 712 713 714
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 726 727 728 729 730 731 732 733 734 735 736
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 770 771 772 773 774 775 776 777 778 779 780
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 803 804 805 806 807 808 809 810 811 812 813
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 902 903 904 905 906 907 908 909 910 911 912
 913 914 915 916 917 918 919 920 921 922 923
 924 925 926 927 928 929 930 931 932 933 934
 935 936 937 938 939 940 941 942 943 944 945
 946 947 948 949 950 951 952 953 954 955 956
 957 958 959 960 961 962 963 964 965 966 967
 968 969 970 971 972 973 974 975 976 977 978
 979 980 981 982 983 984 985 986 987 988 989
 990 991 992 993 994 995 996 997 998 999 1000

Peak Report			
PK	Compound Name	Area/Conc	R.T.
1	Unknown	73.34 mVS	20.0
2	Unknown	66.85 mVS	28.8
3	Unknown	59.09 mVS	32.0
4	Unknown	27.88 mVS	27.6
5	Unknown	82.84 mVS	44.2
6	Unknown	57.09 mVS	43.8
7	Unknown	11.77 mVS	53.8
8	Unknown	65.77 mVS	63.0
9	Benzene	27.19 ppb	76.5
10	Unknown	24.91 mVS	80.8
11	Unknown	19.04 mVS	84.8
12	Unknown	35.15 mVS	91.6
13	Unknown	25.46 mVS	100.9
14	Unknown	42.89 mVS	115.4
15	Unknown	16.39 mVS	126.9
16	Toluene	37.11 ppb	147.8
17	Unknown	10.05 mVS	175.4
18	Unknown	1.625 mVS	214.8
19	Unknown	4.002 mVS	279.4
20	Ethylbenzene	2.165 ppb	311.4
21	MP Xylene	11.09 ppb	334.4

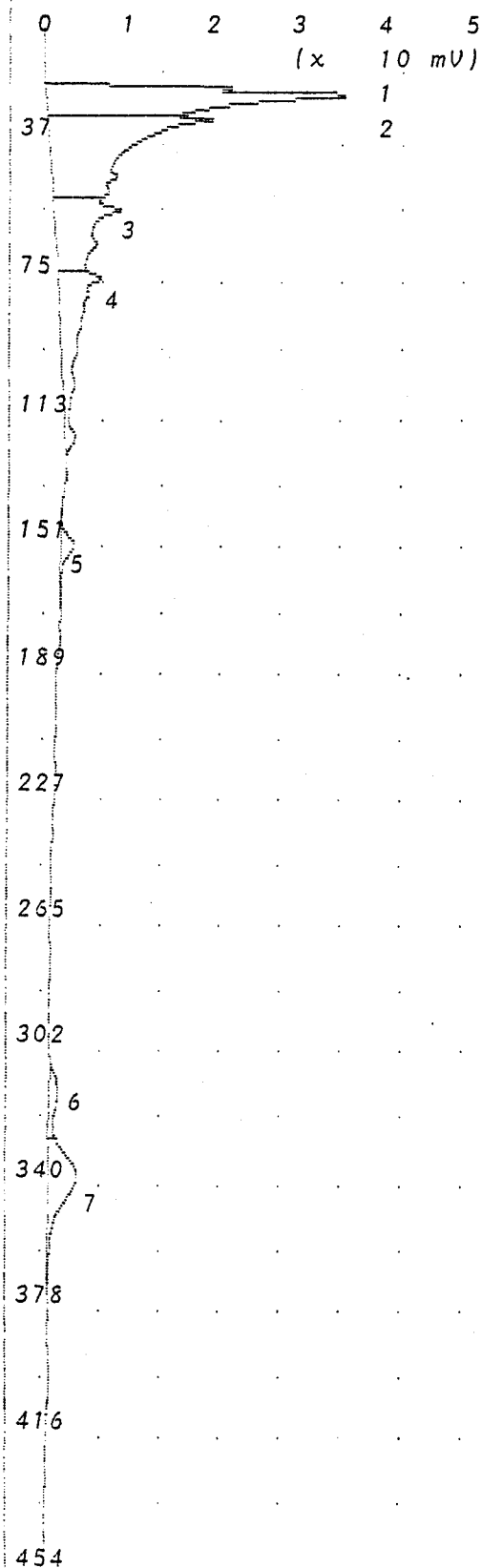
Notes

Billy Mitchell Air National
 Guard Station

Mark Jacobson

4-013PS 51-71

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 14:48
 Sample Time: Nov 1,94 14:39
 Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	213.3 mVS	19.7
2	Unknown	224.4 mVS	28.5
3	Unknown	94.70 mVS	54.0
4	Benzene	68.35 ppb	72.1
5	Toluene	12.35 ppb	148.8
6	Ethylbenzene	28.98 ppb	308.2
7	MP Xylene	209.3 ppb	336.0

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-014PS 1'-3'

0 2 4 6 8 10

Time Printed: Nov 1, 94 15:20

IN 100.00

Sample Time: Nov 1, 94 15:01

Method

37
Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV

75
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	2.390 VSec	23.4
2	Unknown	389.2 VSec	46.7
3	Unknown	469.4 VSec	95.2
4	Unknown	7.199 VSec	128.1
5	Toluene	11.69 ppm	149.2
6	Unknown	19.25 VSec	176.4
7	Unknown	6.522 VSec	196.2
8	Unknown	13.59 VSec	217.2
9	Unknown	8.923 VSec	271.4
10	Ethylbenzene	7.249 ppm	312.2
11	MP Xylene	100.1 ppm	336.0
12	Unknown	509.9 mVS	371.6
13	O Xylene	6.062 ppm	394.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS 7'-9'
5X Dilution

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 1, 94 15:32

Sample Time: Nov 1, 94 15:23

Method

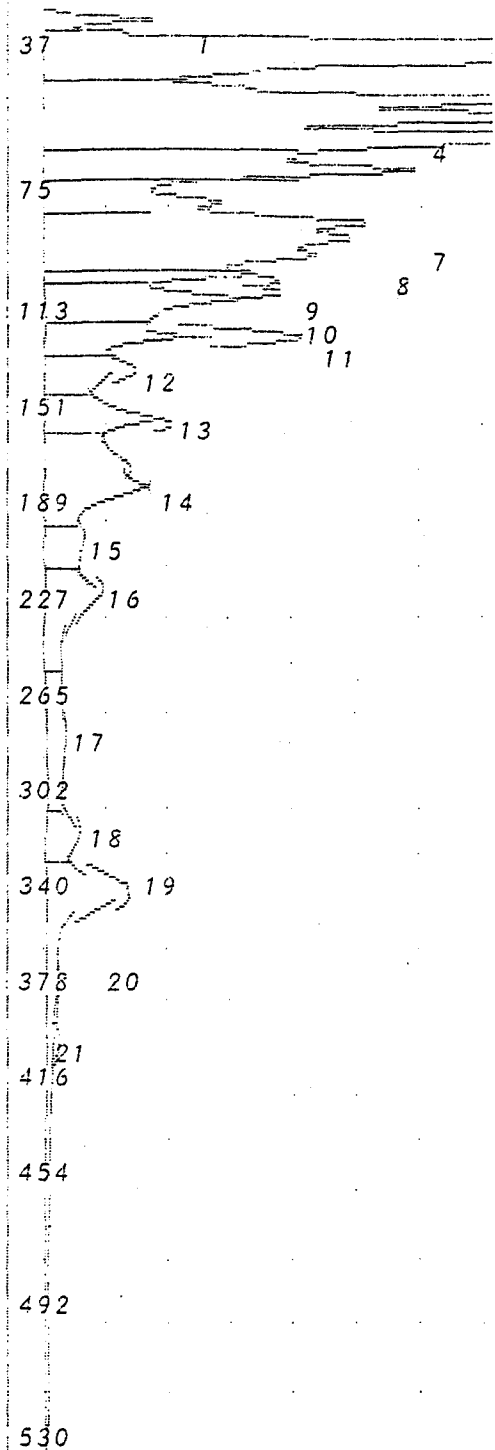
Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	676.4 mVS	23.4
2	Unknown	26.41 VSec	32.3
3	Unknown	3.257 VSec	45.4
4	Unknown	2.531 VSec	46.9
5	Unknown	6.555 VSec	49.8
6	Unknown	8.903 VSec	55.2
7	Unknown	4.745 VSec	63.4
8	Benzene	5.537 ppm	77.2
9	Unknown	2.765 VSec	92.4
10	Unknown	4.706 VSec	101.6
11	Unknown	5.098 VSec	116.5
12	Unknown	2.094 VSec	128.2
13	Toluene	1.044 ppm	149.0
14	Unknown	5.013 VSec	176.4
15	Unknown	1.478 VSec	195.8
16	Unknown	2.961 VSec	217.2
17	Unknown	2.116 VSec	271.4
18	Ethylbenzene	549.8 ppb	312.2
19	MP Xylene	13.26 ppm	333.0
20	Unknown	80.72 mVS	371.6
21	O Xylene	248.6 ppb	393.6

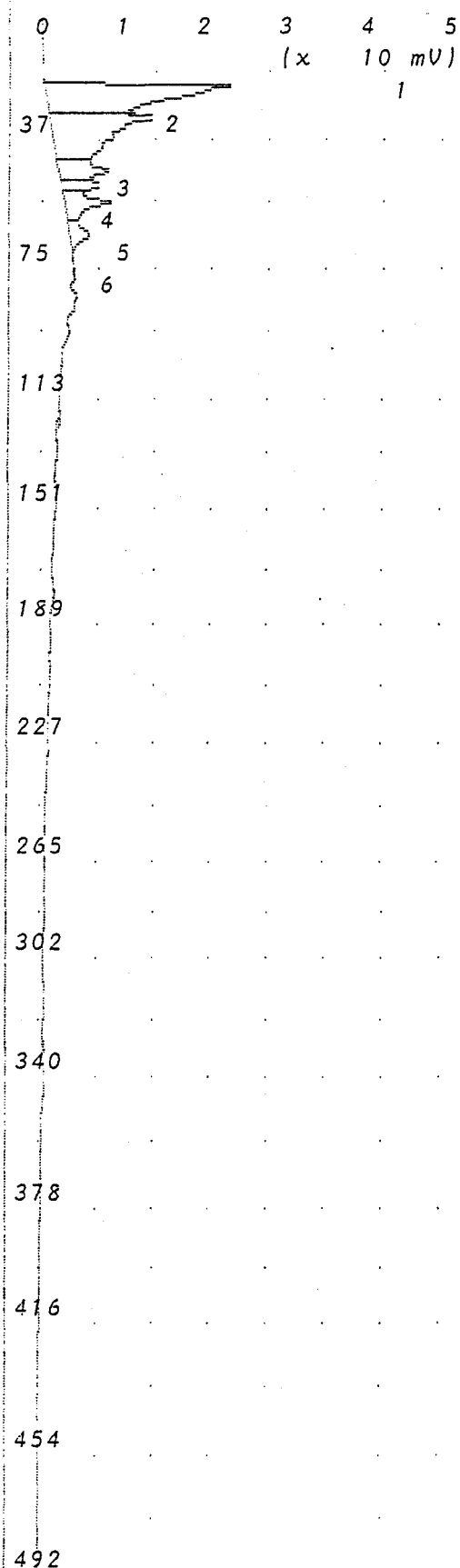
Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS 7'-9'
20X Dilution



Analysis #16

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 14:59

Sample Time: Nov 1, 94 14:50

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	140.6 mVS	19.8
2	Unknown	103.3 mVS	29.0
3	Unknown	29.64 mVS	44.6
4	Unknown	14.15 mVS	48.6
5	Unknown	25.49 mVS	54.0
6	Unknown	14.16 mVS	63.1

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-015PS 1'-3'

Analysis #19 10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 1,94 15:44

Sample Time: Nov 1,94 15:35

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

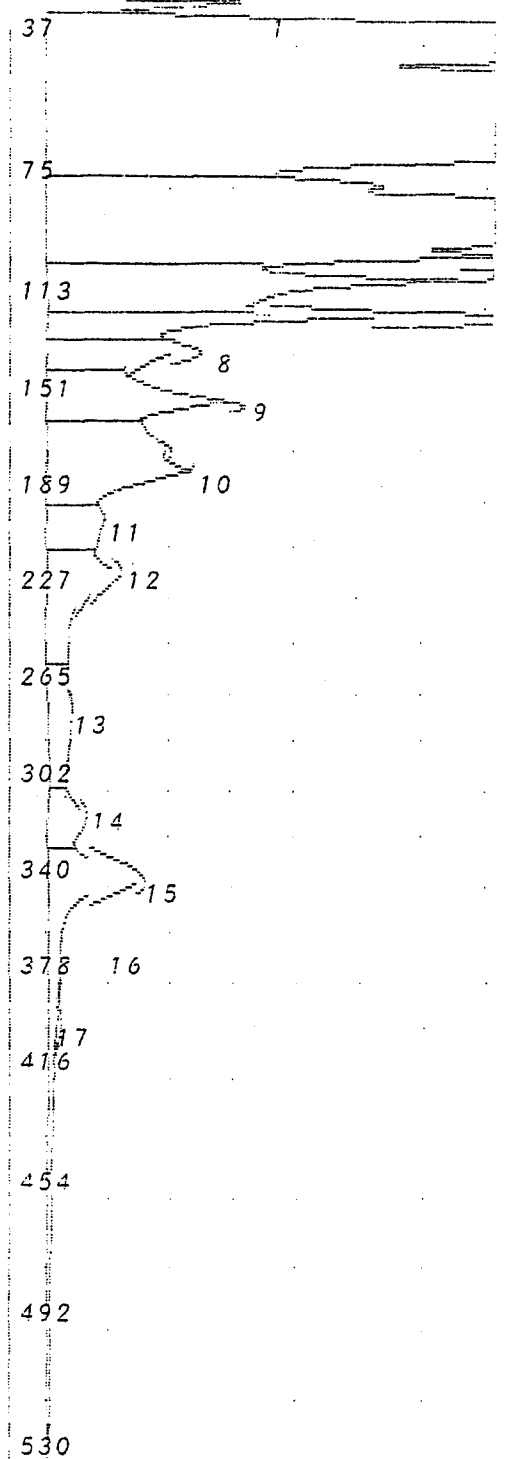
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.321 VSec	24.1
2	Unknown	45.78 VSec	34.4
3	Unknown	222.7 VSec	53.4
4	Unknown	24.90 VSec	82.0
5	Unknown	5.154 VSec	92.9
6	Unknown	11.69 VSec	102.1
7	Unknown	9.237 VSec	117.0
8	Unknown	3.752 VSec	128.8
9	Toluene	2.718 ppm	149.6
10	Unknown	7.340 VSec	177.0
11	Unknown	1.883 VSec	196.4
12	Unknown	4.332 VSec	217.6
13	Unknown	2.327 VSec	271.4
14	Ethylbenzene	618.6 ppb	312.8
15	MP Xylene	15.86 ppm	337.0
16	Unknown	36.82 mVS	371.0
17	O Xylene	250.9 ppb	395.0

Notes

Billy Mitchell Air National
Guard Station

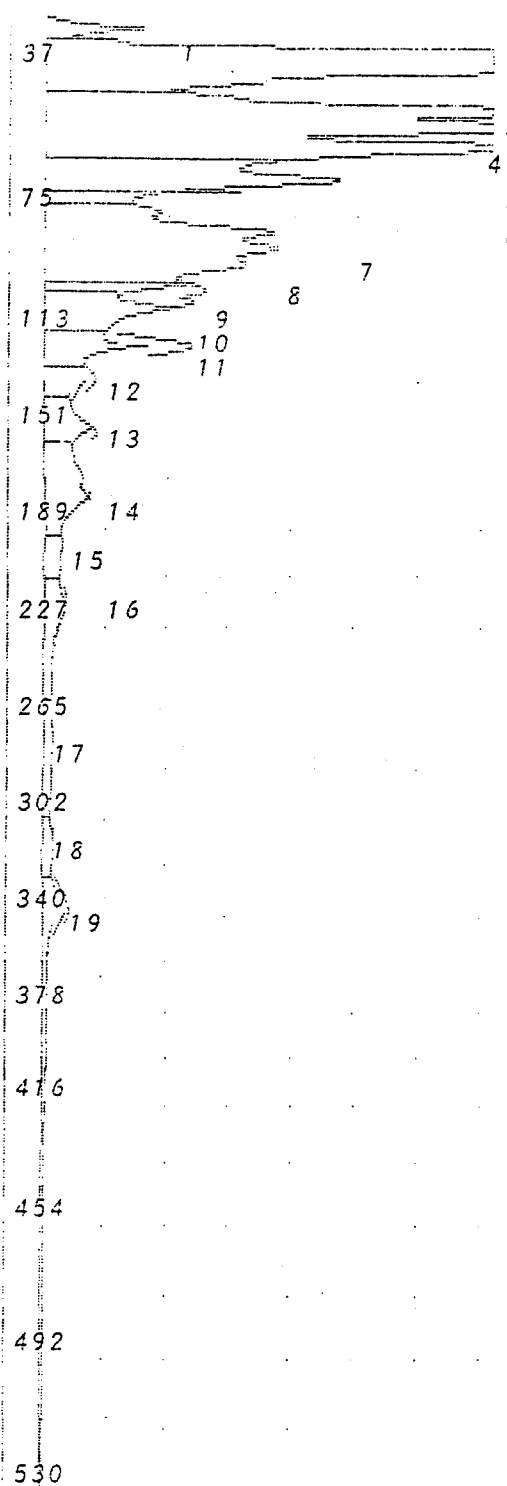
Mark Escobar
04-015PS 3'-5'

20X Dilution



Analysis #22 10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)



Time Printed: Nov 1, 94 16:20

Sample Time: Nov 1, 94 16:11

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 35 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	582.0 mVS	23.5
2	Unknown	26.27 VSec	32.4
3	Unknown	3.386 VSec	45.7
4	Unknown	2.695 VSec	47.2
5	Unknown	3.902 VSec	49.9
6	Unknown	7.584 VSec	55.0
7	Unknown	3.949 VSec	63.6
8	Unknown	8.245 VSec	81.4
9	Unknown	1.775 VSec	92.5
10	Unknown	2.934 VSec	101.7
11	Unknown	3.047 VSec	116.8
12	Unknown	1.237 VSec	128.6
13	Toluene	493.8 ppb	149.2
14	Unknown	2.452 VSec	176.8
15	Unknown	573.5 mVS	195.8
16	Unknown	1.486 VSec	217.4
17	Unknown	823.9 mVS	270.9
18	Ethylbenzene	249.8 ppb	313.0
19	MP Xylene	1.972 ppm	336.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-015PS 3'-5'
50X Dilution

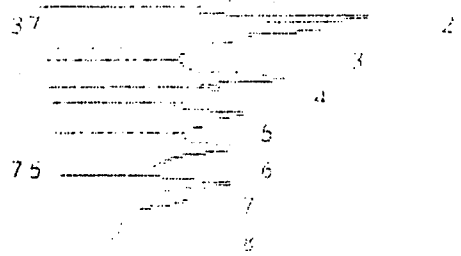
Analysis #20 10S+ GC Function Analysis Report

0 4 8 12 16 20
10000 dV

Time Printed: Nov 2.94 15:32

Sample Time: Nov 2.94 15:23

Method



Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
SIF Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 24 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	62.99 mVS	19.6
2	Unknown	56.35 mVS	28.9
3	Unknown	76.62 mVS	32.0
4	Unknown	58.60 mVS	44.6
5	Unknown	27.64 mVS	48.8
6	Unknown	56.26 mVS	54.2
7	Unknown	61.49 mVS	63.0
8	Benzene	58.26 ppb	72.1
9	MP Xylene	107.7 ppb	337.3

113

151

189

227

265

302

340

378

416

454

492

530

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-016PS 1'-3'

Analysis #22

10S+ GC Function Analysis Report

7 1 2 3 4 5
10 mV

Time Printed: Nov 2, 94 14:35

Sample Time: Nov 2, 94 14:26

Method

37
75
113
151
189
227
265
302
340
378
416
454
492
530

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Default 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
Ref Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	702.7 mVS	19.4
2	Unknown	4.064 mVS	28.5

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-01/PS 31-5

0 2 4 6 8 10
10000 uV

Date Printed: Nov 2, 94 10:58
Sample Time: Nov 2, 94 10:49

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pl	Compound Name	Area/Conc	R.T.
1	Unknown	13.67 mVS	19.4
2	Unknown	36.70 mVS	22.2
3	Unknown	58.28 mVS	28.4
4	Unknown	8.531 mVS	48.1
5	Unknown	30.01 mVS	53.5
6	Unknown	24.11 mVS	62.1
7	Unknown	1.009 mVS	89.8
8	Unknown	1.760 mVS	276.2
9	Ethylbenzene	1.099 ppb	308.2

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-018PS 1'-3'

Analysis #14 10S+ GC Function Analysis Report

0 2 4 6 8 10
 100 mV

Time Printed: Nov 2, 94 11:10
 Sample Time: Nov 2, 94 11:01

Method

57 2
 3
 75
 113
 151
 189
 227
 265
 302
 340
 378
 416
 454
 492
 530

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 BIF Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 24 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	0.450 mVS	17.9
2	Unknown	15.78 mVS	19.4
3	Unknown	3.111 VSec	23.4
4	Unknown	8072. VSec	89.0
5	Unknown	56.96 mVS	248.5
6	Unknown	22.80 VSec	270.4
7	MP Xylene	269.4 ppm	324.2
8	Unknown	5.383 VSec	370.3
9	O Xylene	61.41 ppm	393.6

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 04-018PS 5'-7'
 2X Dilution

0 2 4 6 8 10
100 mV

Time Reported: Nov 2.94 11:29
Sample Name: Nov 2.94 11:13

Method



Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
S/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 550.0 sec

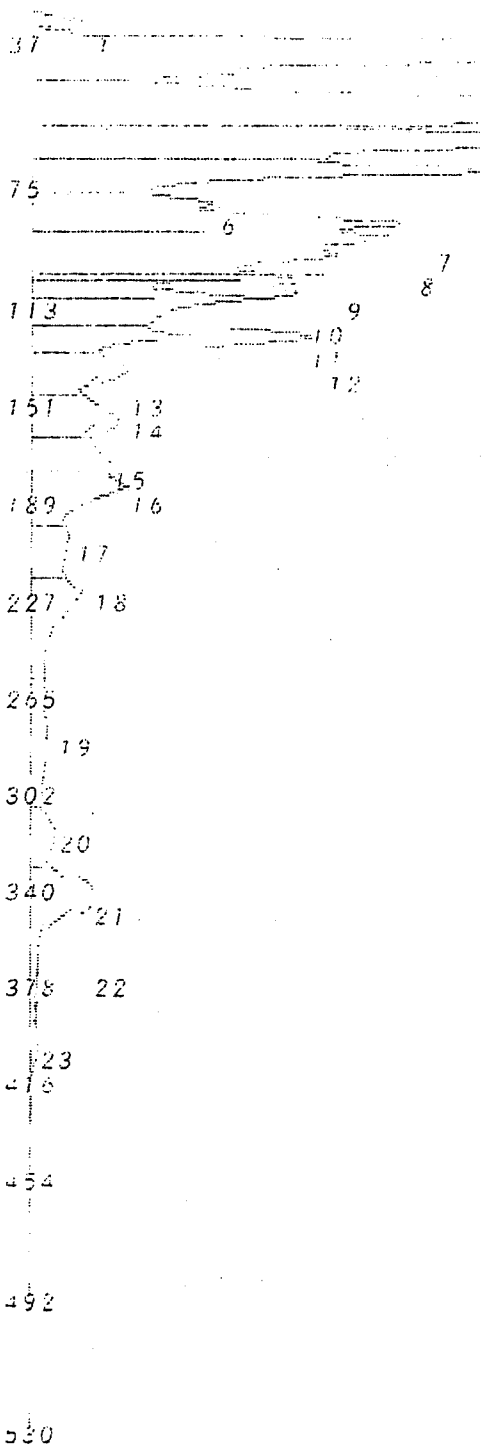
Peak Report

Pe Compound Name Area/Unit P.L.

476
454
492
530

004-018PS 5'-7'
Guava Station
Mark Escobar
25X Dilution

Time Printed: Nov 2, 94 11:26
 Sample Time: Nov 2, 94 11:13



Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

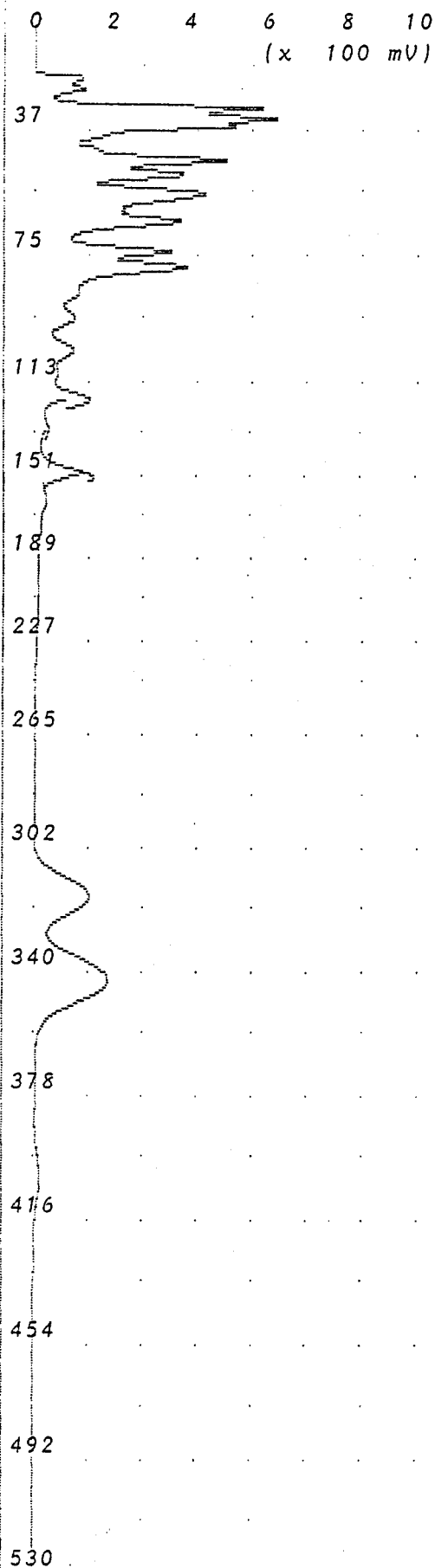
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1	Unknown	298.4 mVS	23.8
2	Unknown	25.48 VSec	32.4
3	Unknown	17.03 VSec	47.8
4	Unknown	13.73 VSec	55.6
5	Unknown	5.433 VSec	63.4
6	Benzene	541.0 ppb	72.0
7	Unknown	3.881 VSec	77.2
8	Unknown	3.572 VSec	81.2
9	Unknown	3.007 VSec	85.4
10	Unknown	3.719 VSec	92.2
11	Unknown	5.676 VSec	101.3
12	Unknown	5.035 VSec	116.2
13	Unknown	2.502 VSec	128.0
14	Toluene	1.045 ppm	148.0
15	Unknown	2.510 VSec	166.6
16	Unknown	2.765 VSec	175.8
17	Unknown	1.696 VSec	194.8
18	Unknown	2.932 VSec	216.2
19	Unknown	1.761 VSec	269.6
20	Ethylbenzene	580.8 ppb	310.9
21	MP Xylene	7.003 ppm	334.4
22	Unknown	47.16 mVS	369.3
23	O Xylene	314.0 ppb	392.3

Notes

Sally Mitchell Air National
 Guard Station
 Mark Escobar
 01-018PS 5'-7'
 25X Dilution

Analysis #13

10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:39

Sample Time: Oct 26,94 14:30

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

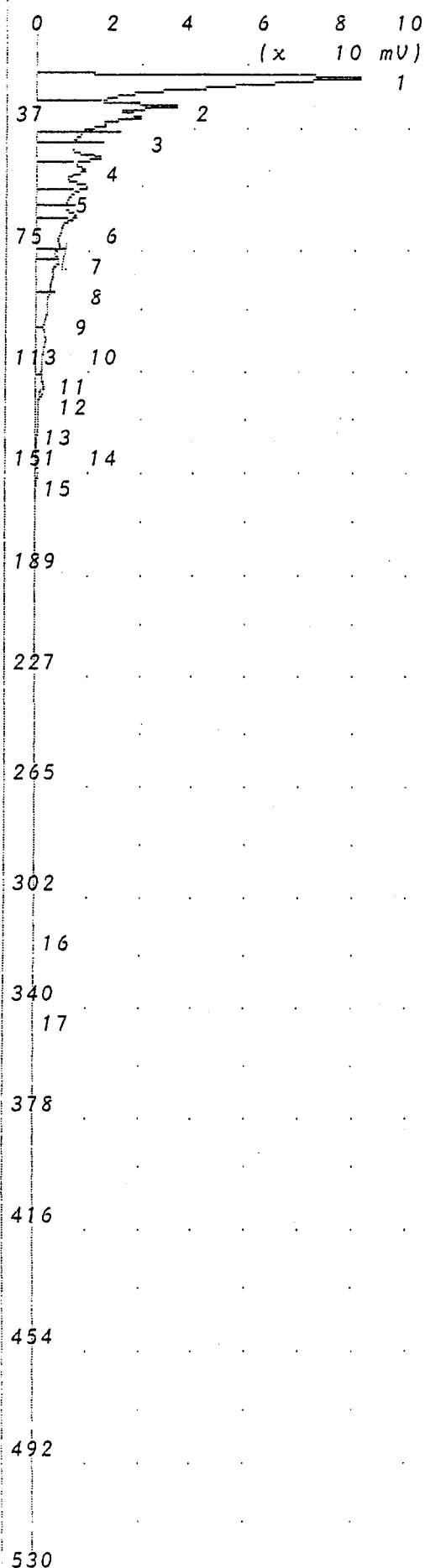
Peak Report

Pk	Compound Name	Area/Conc	R.T.
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Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-019PS 1'-3'

Analysis #14 10S+ GC Function Analysis Report



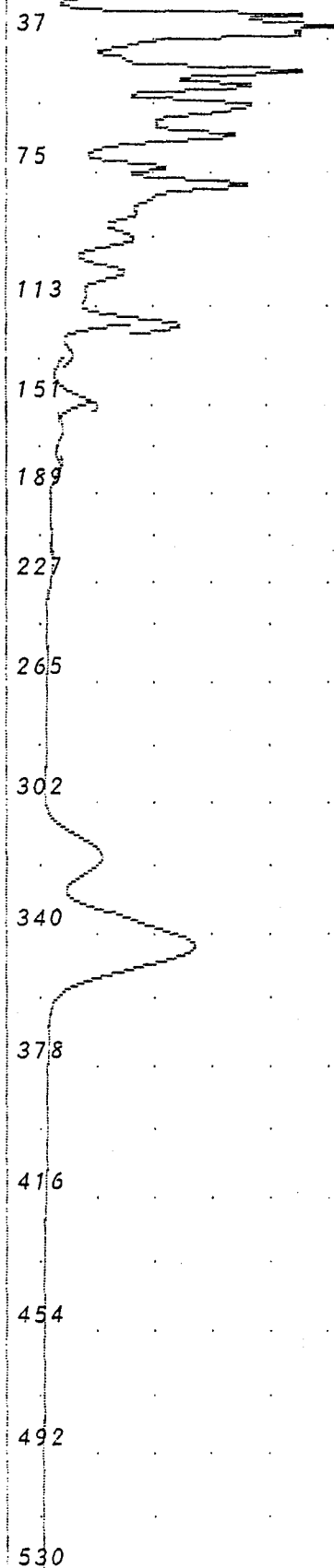
Time Printed: Oct 26,94 14:49
 Sample Time: Oct 26,94 14:41
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
Plk	Compound Name	Area/Conc	R.T.
1	Unknown	422.1 mVS	19.6
2	Unknown	96.02 mVS	28.6
3	Unknown	77.57 mVS	31.6
4	Unknown	92.43 mVS	34.2
5	Unknown	21.17 mVS	40.8
6	Unknown	67.77 mVS	44.3
7	Unknown	56.50 mVS	48.3
8	Unknown	104.0 mVS	53.7
9	Unknown	0.053 mVS	59.7
10	Unknown	88.45 mVS	62.5
11	Benzene	26.30 ppb	71.4
12	Unknown	129.8 mVS	76.2
13	Unknown	57.67 mVS	100.9
14	Unknown	94.32 mVS	116.1
15	Toluene	153.6 ppb	148.6
16	Ethylbenzene	20.67 ppb	315.2
17	MP Xylene	70.73 ppb	338.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-019PS 5'-7'

0 2 4 6 8 10
(x 100 mV)



Time Printed: Oct 26, 94 13:52

Sample Time: Oct 26, 94 13:44

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

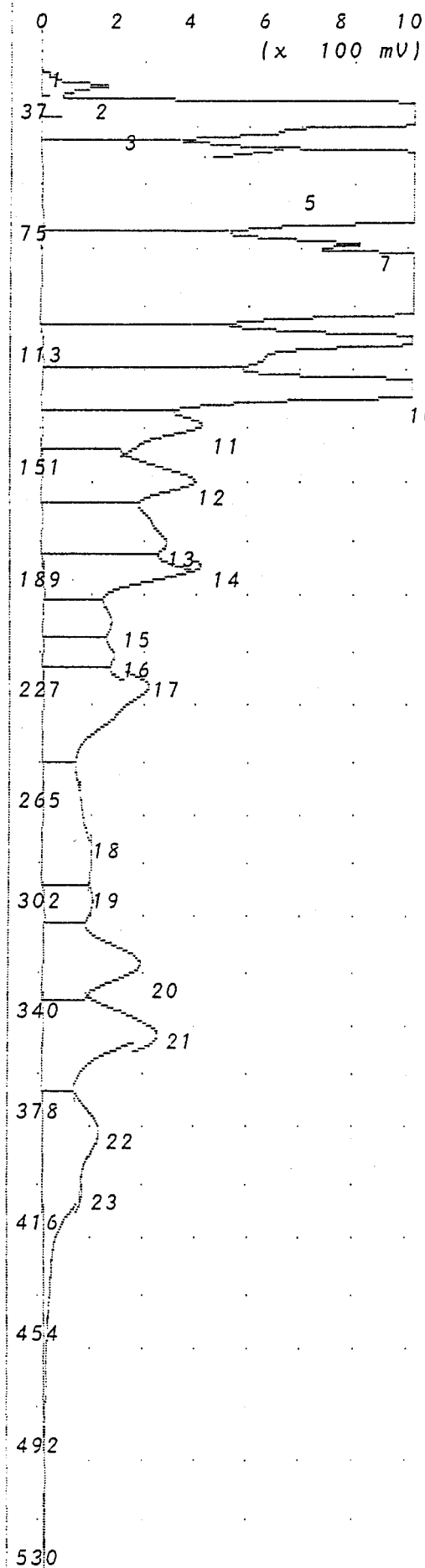
Peak Report

Pk	Compound Name	Area/Conc	R.T.
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Notes

Mark Escobar
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04-020PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:27

Sample Time: Oct 26,94 14:18

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

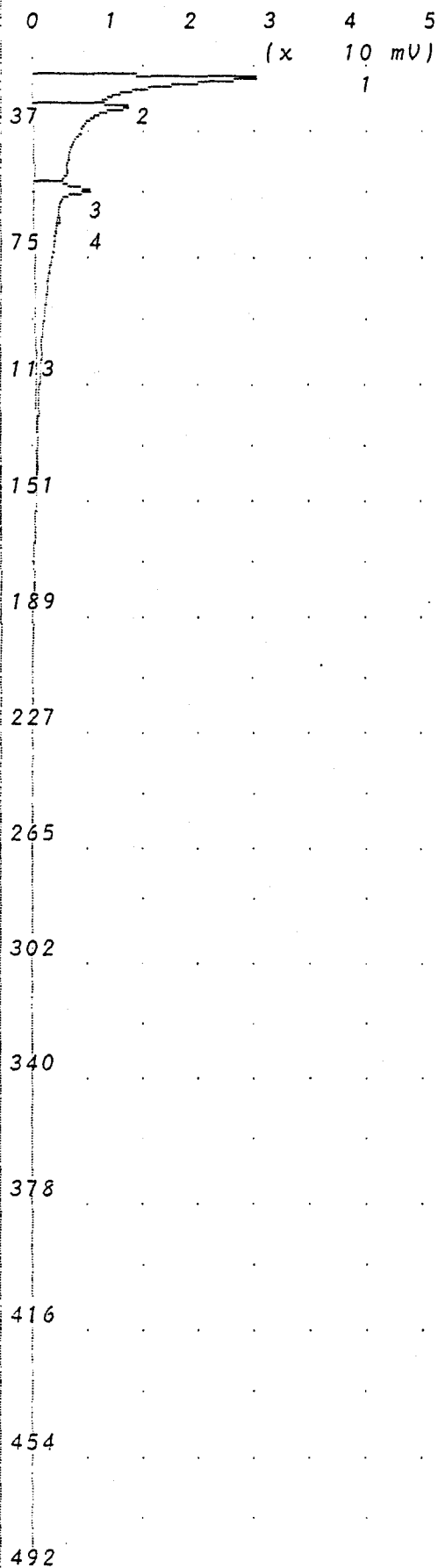
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.197 mVS	17.7
2	Unknown	33.67 mVS	19.0
3	Unknown	587.4 mVS	22.8
4	Unknown	37.80 VSec	31.4
5	Unknown	113.2 mVS	36.9
6	Unknown	105.1 VSec	53.6
7	Benzene	800.5 ppb	71.8
8	Unknown	97.99 VSec	84.4
9	Unknown	11.52 VSec	102.0
10	Unknown	15.17 VSec	117.0
11	Unknown	4.873 VSec	128.1
12	Toluene	2.185 ppm	148.6
13	Unknown	4.823 VSec	167.6
14	Unknown	5.431 VSec	178.0
15	Unknown	2.122 VSec	195.0
16	Unknown	1.801 VSec	206.2
17	Unknown	6.326 VSec	219.0
18	Unknown	5.143 VSec	277.3
19	Unknown	1.897 VSec	295.4
20	Ethylbenzene	1.685 ppm	315.4
21	MP Xylene	4.925 ppm	341.3
22	Unknown	6.493 VSec	378.0
23	O Xylene	14.12 ppb	395.6

Notes

Mark Escobar
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Guard Base
04-020PS 5'-7'

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 26, 94 15:01

Sample Time: Oct 26, 94 14:52

Method

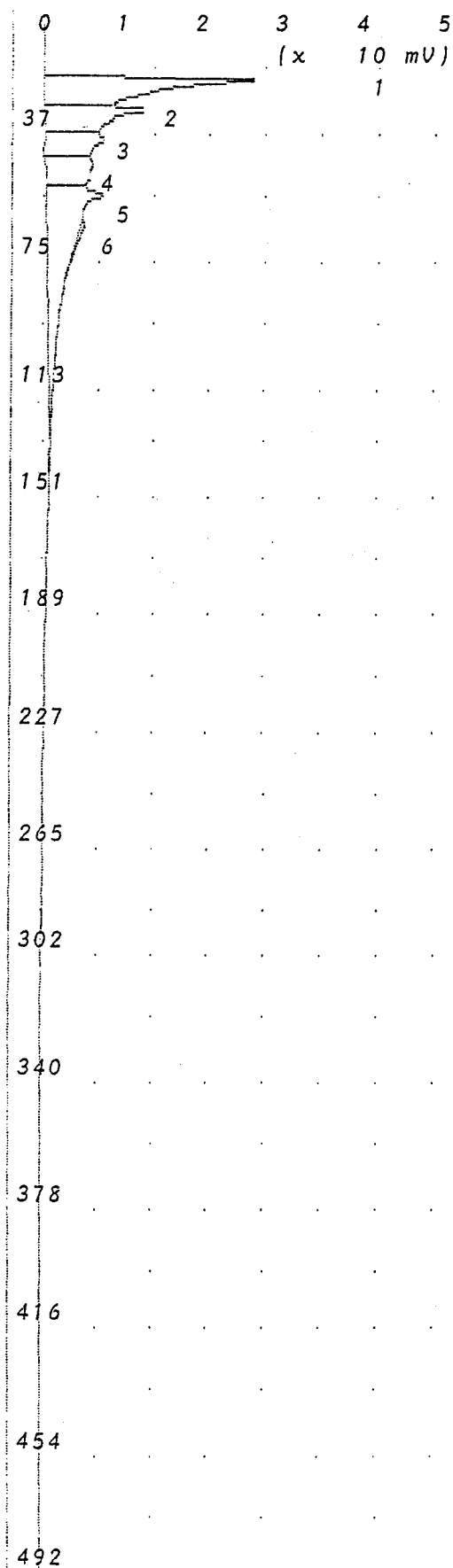
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	142.1 mVS	18.7
2	Unknown	146.9 mVS	28.1
3	Unknown	135.5 mVS	53.2
4	Unknown	0.602 mVS	62.2

Notes

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 04-021PS 1'-3'



Time Printed: Oct 26, 94 15:12

Sample Time: Oct 26, 94 15:03

Method

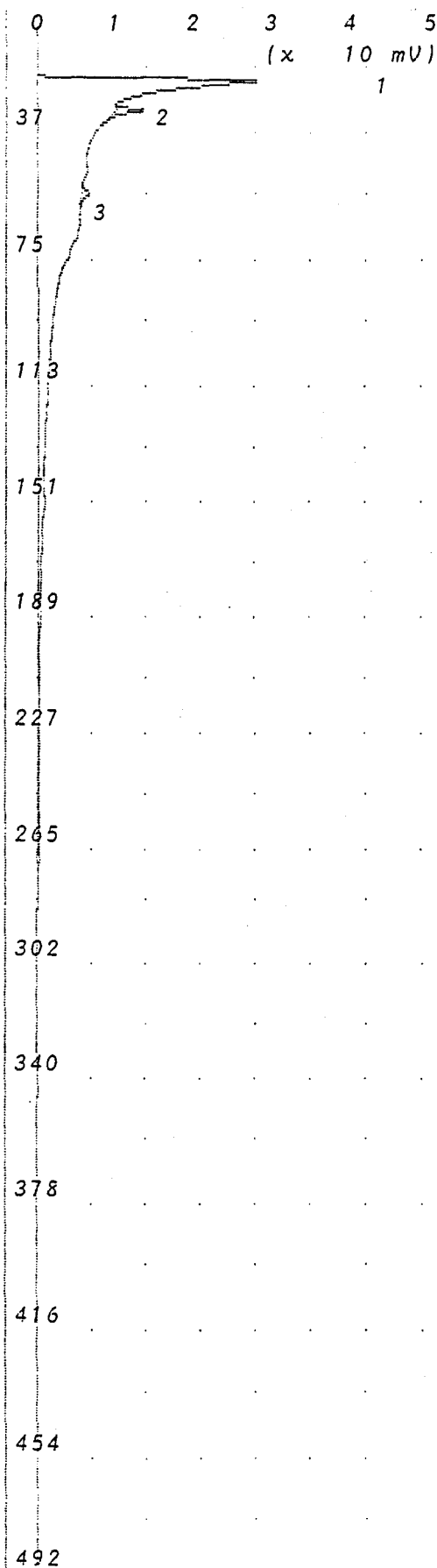
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.3 mVS	18.8
2	Unknown	75.51 mVS	28.2
3	Unknown	45.47 mVS	37.1
4	Unknown	50.43 mVS	44.0
5	Unknown	169.9 mVS	53.5
6	Unknown	2.623 mVS	62.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-021PS 5'-7'



Time Printed: Oct 28,94 12:23

Sample Time: Oct 28,94 12:14

Method

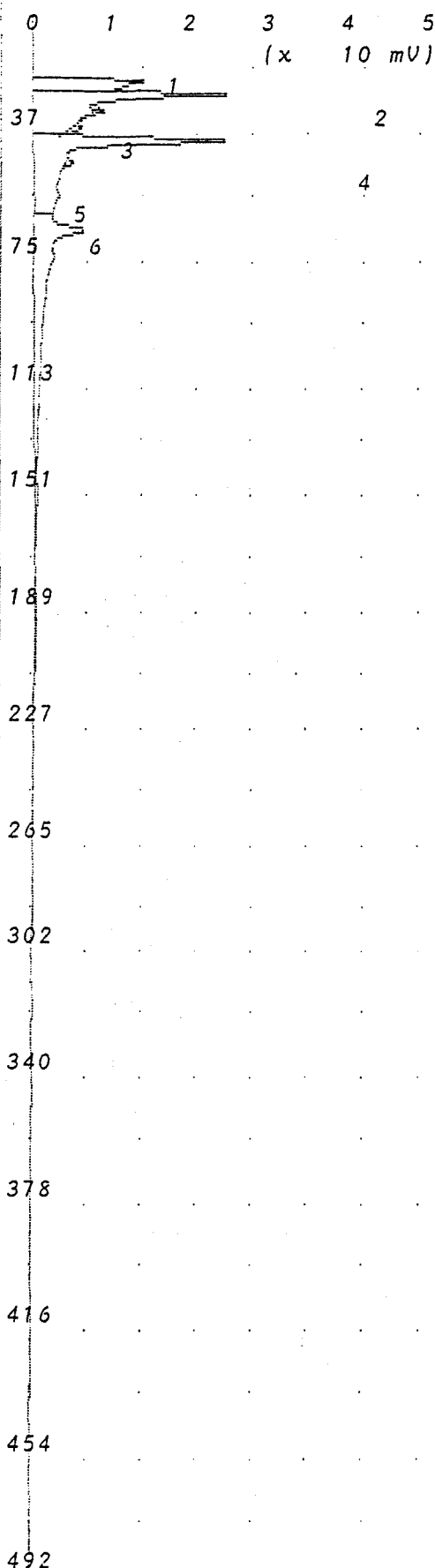
Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	618.5 mVS	19.3
2	Unknown	5.799 mVS	28.5
3	Unknown	2.071 mVS	53.8

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-022PS 1'-3'



Time Printed: Oct 28,94 12:59

Sample Time: Oct 28,94 12:50

Method

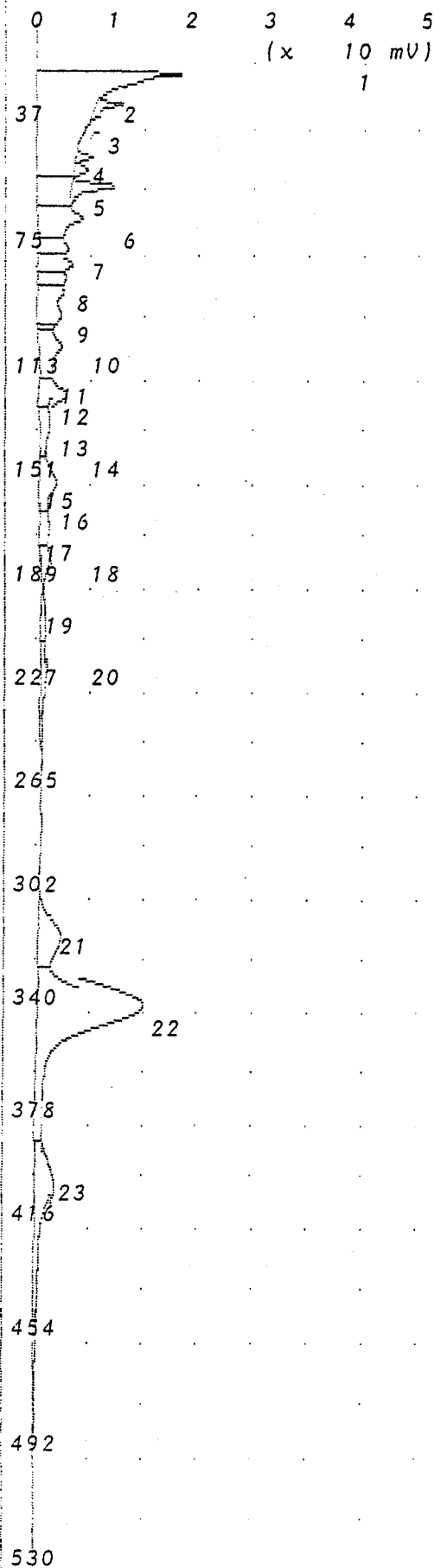
Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	48.20 mVS	19.6
2	Unknown	120.2 mVS	23.5
3	Unknown	1.517 mVS	28.7
4	Unknown	129.1 mVS	37.0
5	Unknown	1.809 mVS	43.7
6	Unknown	127.3 mVS	63.7

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-022PS 5'-7'



Time Printed: Oct 27,94 10:52

Sample Time: Oct 27,94 10:43

Method

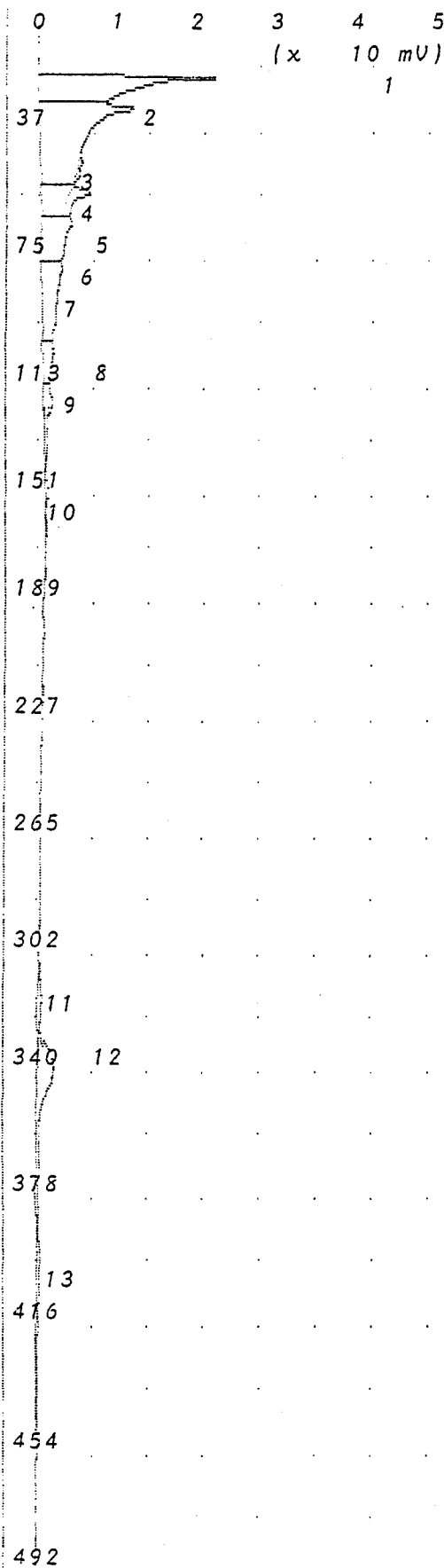
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	259.0 mVS	18.6
2	Unknown	6.191 mVS	28.0
3	Unknown	1.843 mVS	31.0
4	Unknown	5.018 mVS	43.6
5	Unknown	4.535 mVS	47.6
6	Unknown	53.96 mVS	52.8
7	Unknown	44.97 mVS	61.8
8	Benzene	1.172 ppb	71.0
9	Unknown	20.35 mVS	75.7
10	Unknown	15.58 mVS	79.8
11	Unknown	15.76 mVS	84.1
12	Unknown	21.06 mVS	91.0
13	Unknown	31.83 mVS	100.2
14	Unknown	28.95 mVS	115.3
15	Unknown	16.56 mVS	127.2
16	Toluene	3.246 ppb	144.0
17	Unknown	13.97 mVS	165.2
18	Unknown	16.77 mVS	173.2
19	Unknown	9.579 mVS	196.2
20	Unknown	14.48 mVS	216.2
21	Ethylbenzene	8.708 ppb	312.0
22	MP Xylene	144.0 ppb	335.7
23	O Xylene	66.67 ppb	398.3

Notes

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Billy Mitchell Air National
Guard Base
04-023PS 1'-3'



Time Printed: Oct 27, 94 11:09

Sample Time: Oct 27, 94 11:00

Method

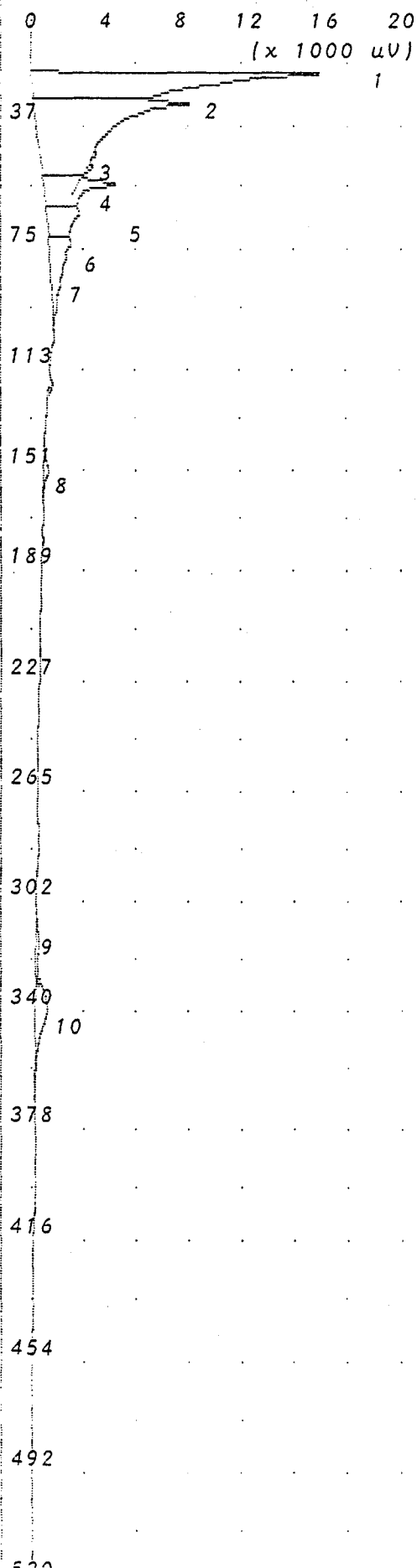
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	112.0 mVS	18.8
2	Unknown	154.1 mVS	28.1
3	Unknown	1.205 mVS	43.8
4	Unknown	1.506 mVS	47.6
5	Unknown	43.53 mVS	52.9
6	Unknown	43.81 mVS	62.0
7	Benzene	2.967 ppb	75.3
8	Unknown	14.26 mVS	100.2
9	Unknown	17.90 mVS	114.0
10	Toluene	0.424 ppb	148.4
11	Ethylbenzene	1.161 ppb	312.8
12	MP Xylene	21.57 ppb	332.2
13	O Xylene	7.894 ppb	398.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-023PS 3'-5' MS/MSD



Time Printed: Oct 27, 94 11:24

Sample Time: Oct 27, 94 11:15

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	85.64 mVS	19.3
2	Unknown	98.71 mVS	28.4
3	Unknown	0.360 mVS	43.9
4	Unknown	0.513 mVS	47.7
5	Unknown	23.61 mVS	53.3
6	Unknown	13.42 mVS	62.3
7	Benzene	1.047 ppb	71.3
8	Toluene	0.194 ppb	148.6
9	Ethylbenzene	0.313 ppb	313.8
10	MP Xylene	5.690 ppb	337.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-023PS 5'-7'

[illegible]

10-21-22

Flow No	0.000	mL/Sec
Carrier Flow	1.500	mL/Sec
Aux Area	0.000	mL/Sec
Aut Height	0.000	mm
Analytic Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	mL/min
S/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Emr Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

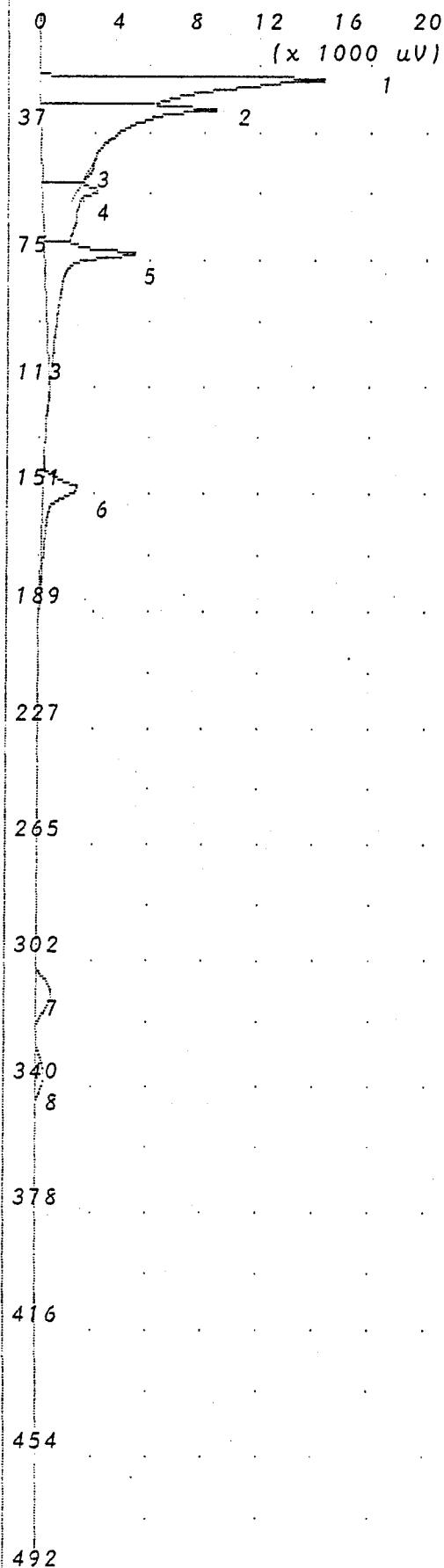
Pr	Compound Name	Area/Conc	R.T.
1	Unknown	4.759 mVS	17.8
2	Unknown	19.02 mVS	19.7
3	Unknown	10.88 mVS	21.4
4	Unknown	35.51 mVS	22.6
5	Unknown	48.62 mVS	28.7
6	Unknown	38.80 mVS	37.8
7	Unknown	41.86 mVS	44.2
8	Unknown	37.56 mVS	53.8
9	Unknown	61.18 mVS	63.8
10	Benzene	12.99 ppb	74.2
11	Unknown	25.87 mVS	81.8
12	Unknown	27.95 mVS	90.4
13	Unknown	10.68 mVS	116.8
14	Unknown	23.12 mVS	126.9
15	Toluene	13.66 ppb	147.0
16	Unknown	7.735 mVS	156.0
17	Unknown	20.41 mVS	176.0
18	Unknown	14.38 mVS	202.0
19	Unknown	14.35 mVS	223.0
20	Unknown	4.202 mVS	252.2
21	Unknown	3.385 mVS	276.2
22	Ethylbenzene	0.696 ppb	309.3

140222

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Guard Base

Mark Escobar
04-024PS-1'-3'

530



Time Printed: Oct 29, 94 09:22

Sample Time: Oct 29, 94 09:13

Method

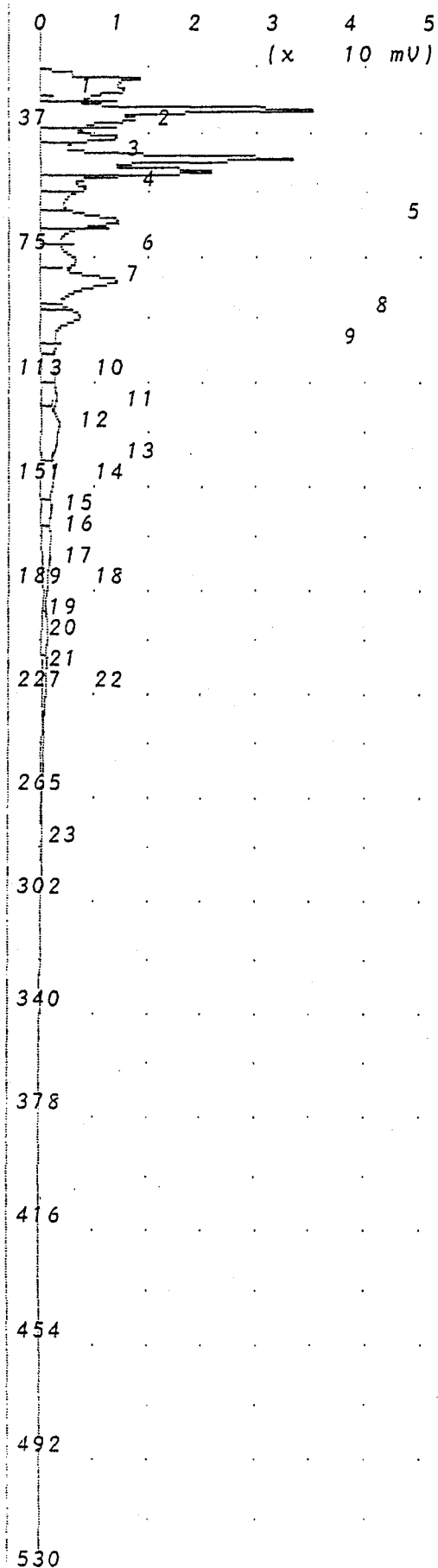
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	83.66 mVS	19.6
2	Unknown	97.58 mVS	28.4
3	Unknown	0.352 mVS	46.0
4	Unknown	32.76 mVS	53.0
5	Benzene	26.11 ppb	71.2
6	Toluene	20.64 ppb	147.0
7	Ethylbenzene	51.21 ppb	311.4
8	MP Xylene	111.8 ppb	334.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-025PS 1'-3'



Time Printed: Oct 29,94 09:33

Sample Time: Oct 29,94 09:24

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

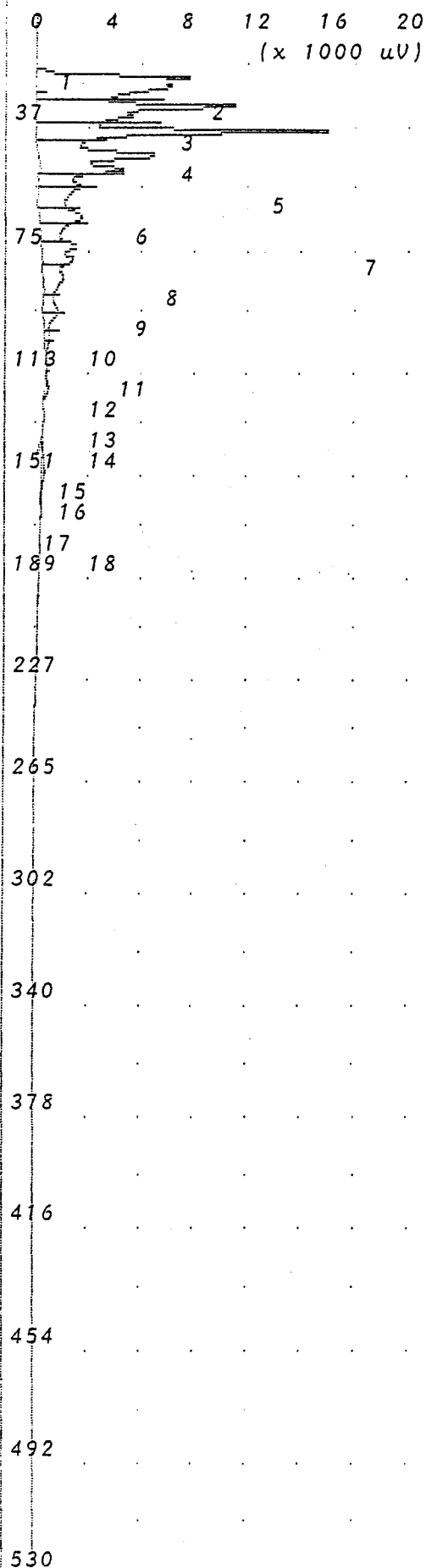
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.674 mVS	17.5
2	Unknown	22.57 mVS	19.2
3	Unknown	10.42 mVS	21.0
4	Unknown	43.70 mVS	22.8
5	Unknown	77.69 mVS	27.8
6	Unknown	39.40 mVS	31.3
7	Unknown	35.65 mVS	36.9
8	Unknown	96.76 mVS	42.5
9	Unknown	68.04 mVS	47.0
10	Unknown	29.33 mVS	52.6
11	Unknown	62.23 mVS	62.3
12	Benzene	20.24 ppb	74.4
13	Unknown	58.39 mVS	80.5
14	Unknown	34.33 mVS	91.0
15	Unknown	15.04 mVS	99.3
16	Unknown	28.10 mVS	115.4
17	Unknown	31.50 mVS	123.4
18	Toluene	31.85 ppb	143.3
19	Unknown	13.54 mVS	156.6
20	Unknown	26.16 mVS	175.6
21	Unknown	11.52 mVS	201.6
22	Unknown	16.53 mVS	213.6
23	Unknown	0.493 mVS	275.7

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-025PS 3'-5' Duplicate



Time Printed: Oct 29, 94 09:44

Sample Time: Oct 29, 94 09:35

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

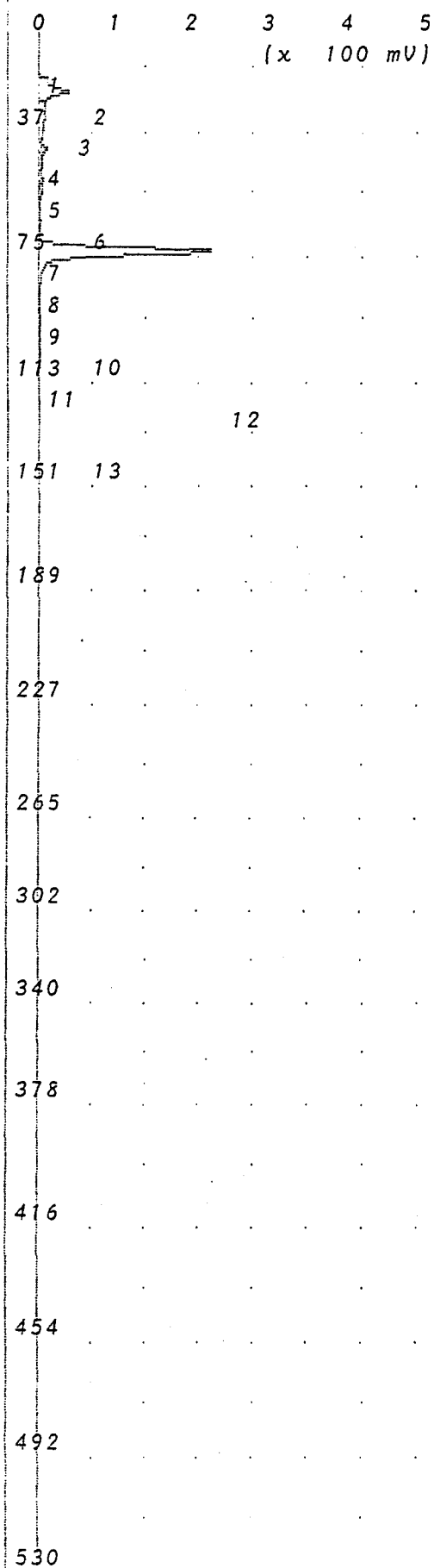
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.245 mVS	18.4
2	Unknown	13.39 mVS	19.7
3	Unknown	7.547 mVS	21.4
4	Unknown	29.91 mVS	22.5
5	Unknown	25.54 mVS	28.8
6	Unknown	17.51 mVS	31.8
7	Unknown	38.63 mVS	36.6
8	Unknown	20.63 mVS	43.9
9	Unknown	15.69 mVS	48.2
10	Unknown	12.09 mVS	53.8
11	Unknown	14.28 mVS	60.8
12	Benzene	5.395 ppb	70.6
13	Unknown	6.433 mVS	74.9
14	Unknown	6.977 mVS	80.9
15	Unknown	4.336 mVS	91.8
16	Unknown	1.062 mVS	99.8
17	Unknown	0.056 mVS	137.8
18	Toluene	3.447 ppb	147.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-025PS 5'-7'

Analysis #8

10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 09:56

Sample Time: Oct 29, 94 09:47

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

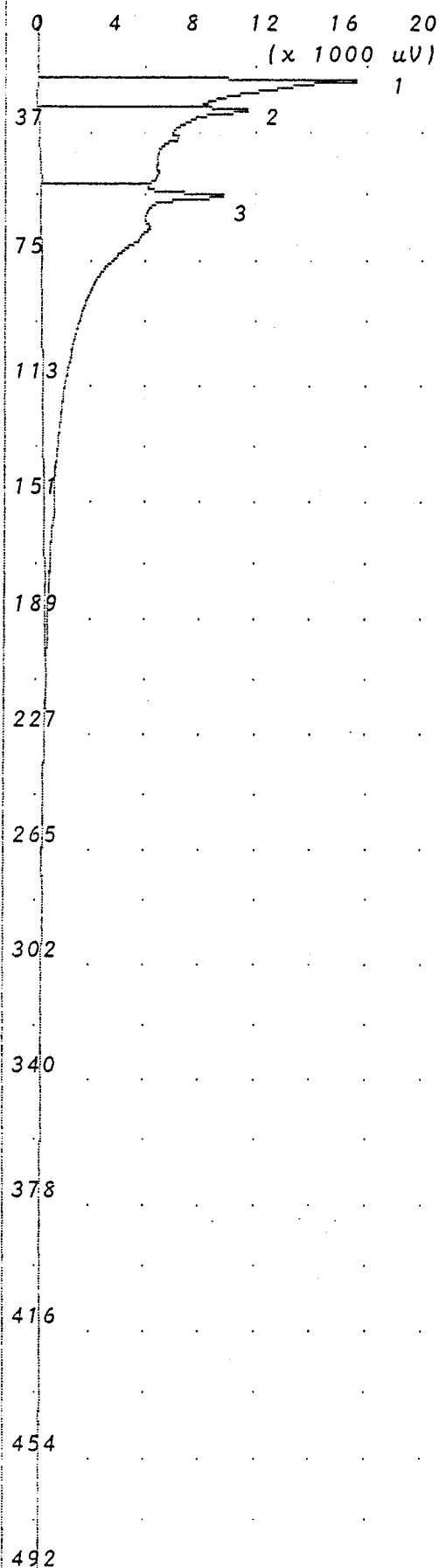
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.650 mVS	18.0
2	Unknown	23.78 mVS	19.4
3	Unknown	209.8 mVS	23.2
4	Unknown	1.745 mVS	28.2
5	Unknown	3.981 mVS	30.6
6	Unknown	1.470 mVS	34.0
7	Unknown	0.859 mVS	36.0
8	Unknown	49.55 mVS	40.6
9	Unknown	18.77 mVS	50.2
10	Unknown	27.64 mVS	53.0
11	Unknown	12.18 mVS	62.0
12	Benzene	132.3 ppb	70.8
13	Toluene	0.228 ppb	138.1

Notes

Billy Mitchell Air National
 Guard Base

Mark Escobar
 04-025PS 8'-10'

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 28, 94 16:07

Sample Time: Oct 28, 94 15:58

Method

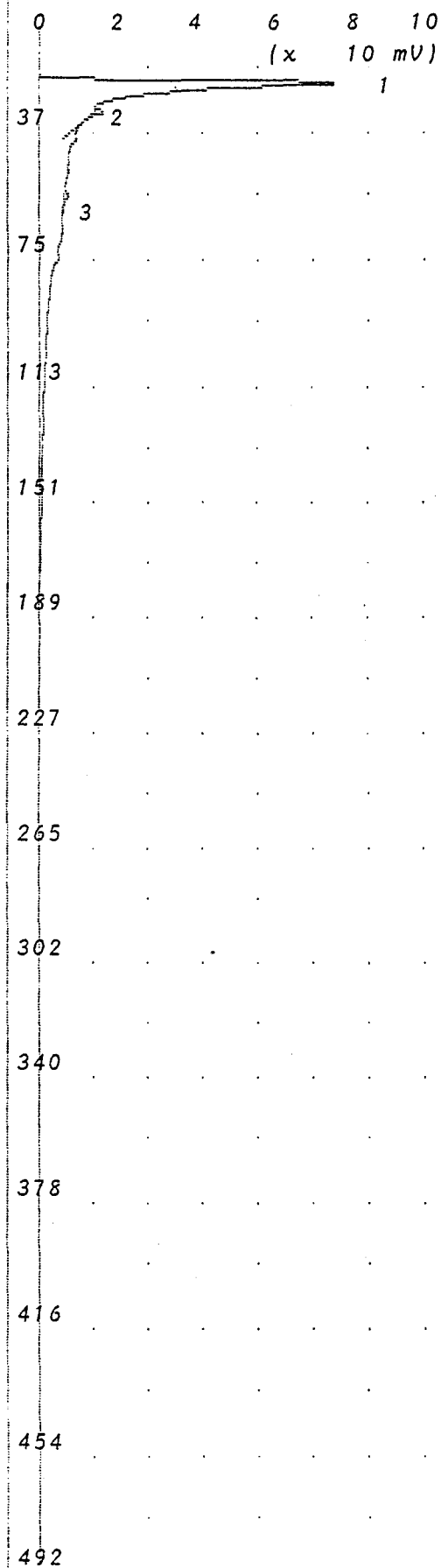
Slope Up 0.500 mV/Sec
 Slope Down 0.500 mV/Sec
 Min Area 200.0 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	102.8 mVS	19.8
2	Unknown	161.2 mVS	28.8
3	Unknown	253.7 mVS	54.2

Notes

Mark Escobar
 Billy Mitchell Air
 National Guard Base
 04-026PS 1'-3'



Time Printed: Oct 28,94 12:11

Sample Time: Oct 28,94 12:02

Method

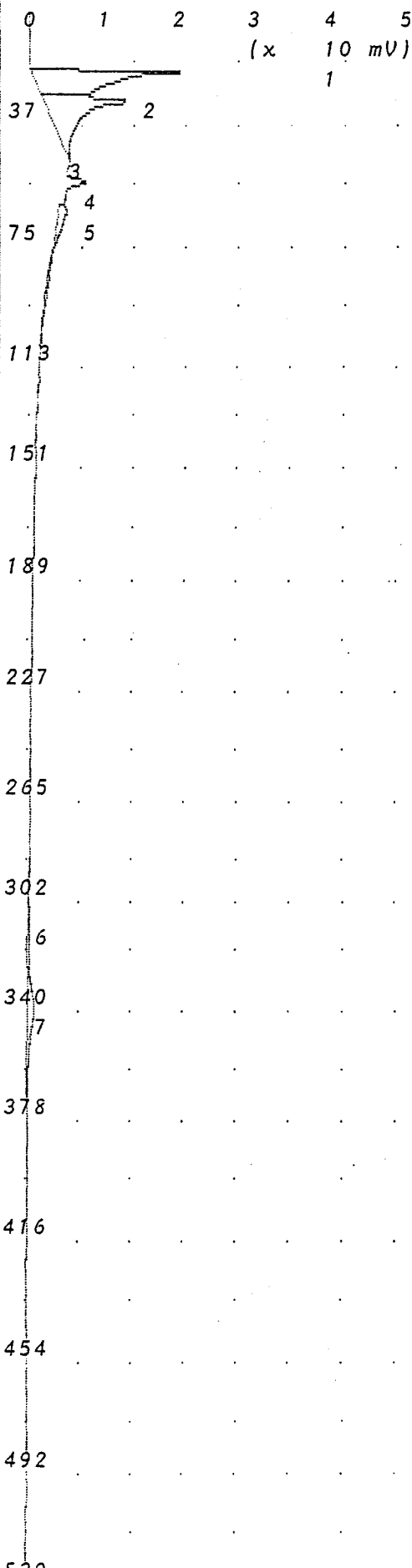
Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	990.6 mVS	20.4
2	Unknown	3.190 mVS	29.0
3	Unknown	3.086 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-026PS G11
029 PS 5-7 (M2)



Time Printed: Oct 27,94 11:35

Sample Time: Oct 27,94 11:26

Method

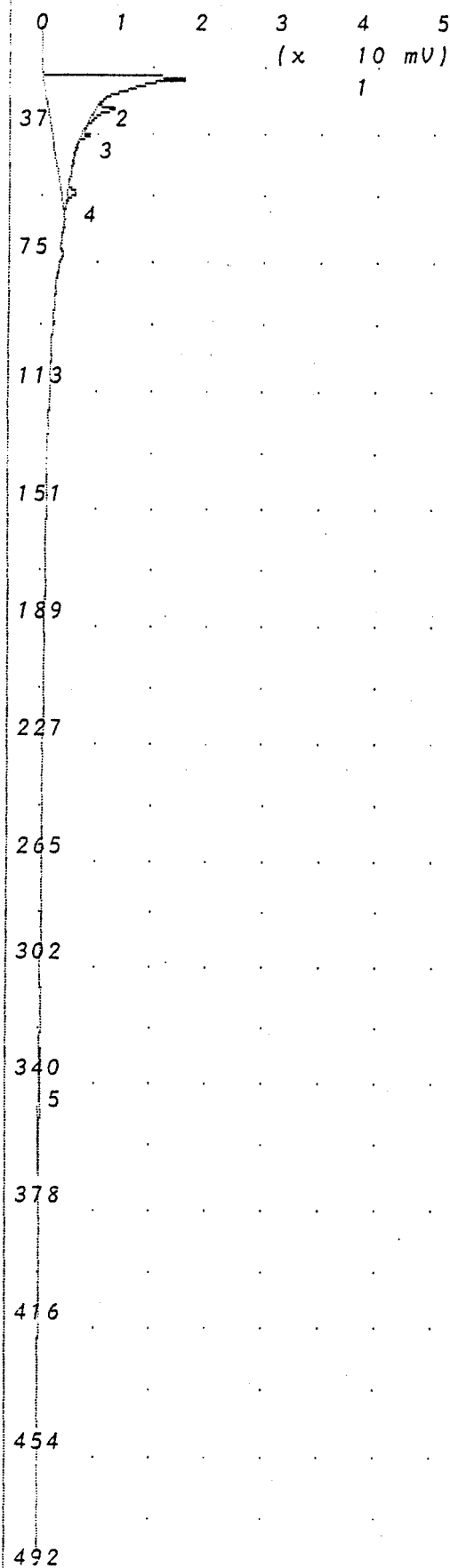
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	93.27 mVS	19.0
2	Unknown	66.98 mVS	28.2
3	Unknown	0.145 mVS	43.7
4	Unknown	10.20 mVS	53.1
5	Unknown	0.019 mVS	62.1
6	Ethylbenzene	0.419 ppb	313.0
7	MP Xylene	7.561 ppb	336.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-027PS 1'-3'



Time Printed: Oct 27, 94 11:46

Sample Time: Oct 27, 94 11:37

Method

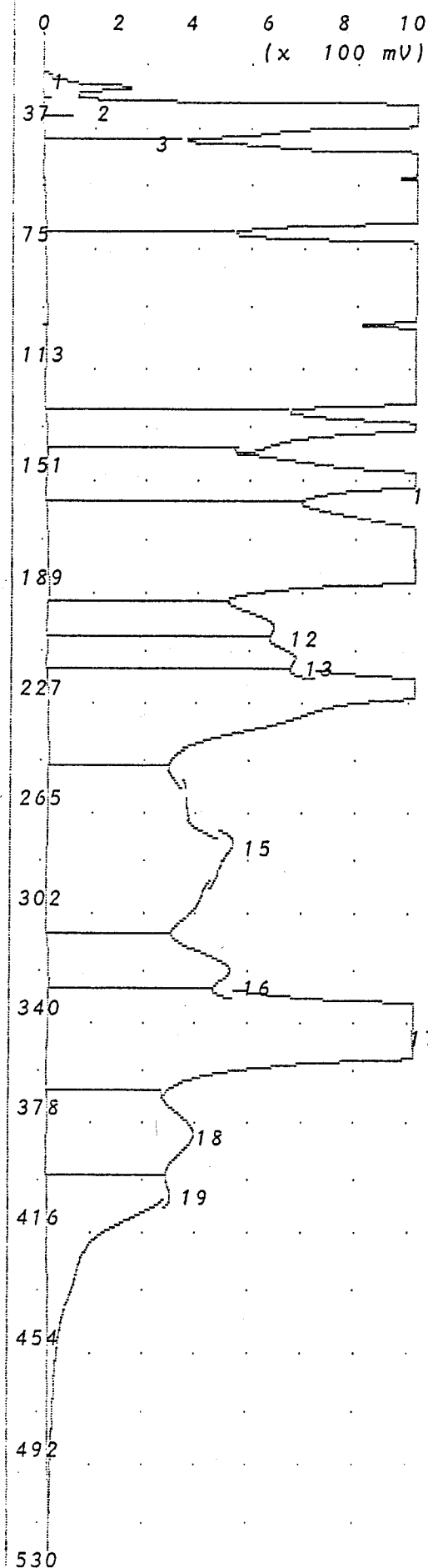
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	188.2 mVS	18.7
2	Unknown	5.620 mVS	28.0
3	Unknown	0.518 mVS	35.8
4	Unknown	2.929 mVS	52.8
5	MP Xylene	1.833 ppb	337.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-027PS 5'-7'



Time Printed: Oct 26, 94 15:50

Sample Time: Oct 26, 94 15:41

Method

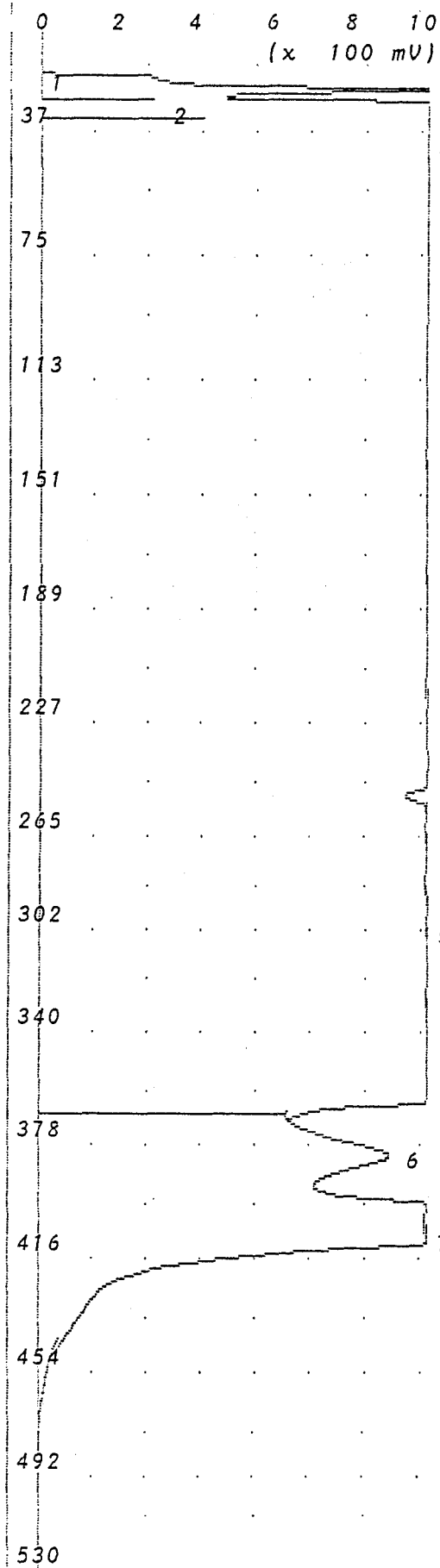
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.569 mVS	17.5
2	Unknown	37.26 mVS	18.6
3	Unknown	722.3 mVS	22.4
4	Unknown	27.71 VSec	31.5
5	Unknown	17.07 VSec	46.8
6	Unknown	55.17 VSec	53.2
7	Unknown	118.0 VSec	83.6
8	Unknown	26.97 VSec	110.2
9	Unknown	11.55 VSec	129.3
10	Toluene	6.306 ppm	148.8
11	Unknown	40.78 VSec	173.6
12	Unknown	6.641 VSec	197.4
13	Unknown	6.559 VSec	207.6
14	Unknown	24.70 VSec	220.0
15	Unknown	26.11 VSec	275.2
16	Ethylbenzene	2.649 ppm	318.1
17	MP Xylene	31.15 ppm	341.3
18	Unknown	9.482 VSec	379.3
19	O Xylene	17.58 ppm	399.3

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 04-028PS 1'-3'



Time Printed: Oct 26, 94 16:05

Sample Time: Oct 26, 94 15:56

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

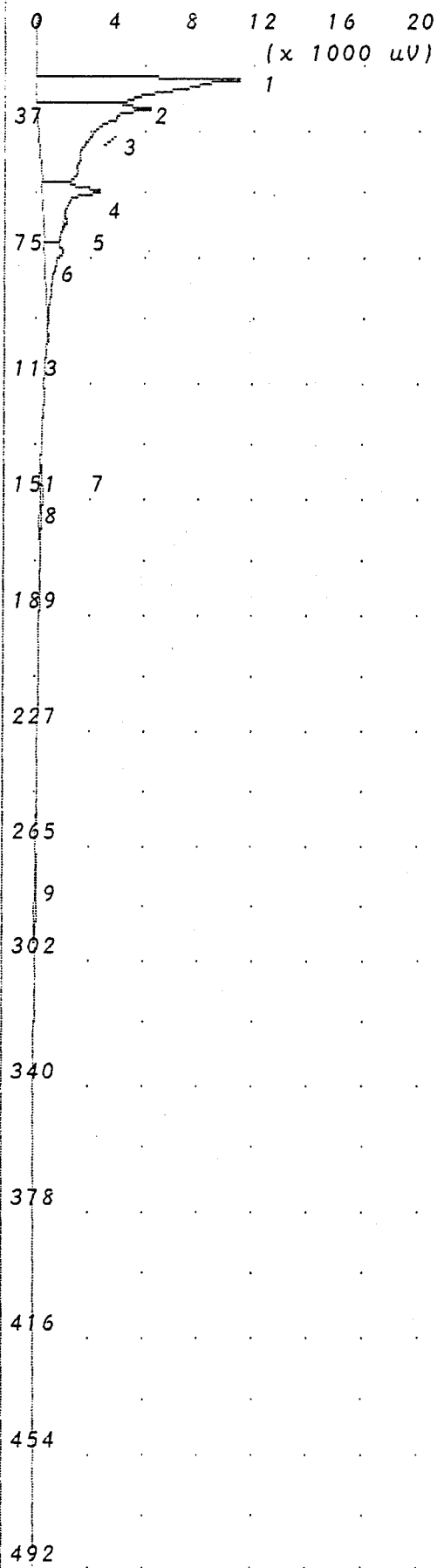
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.871 mVS	17.7
2	Unknown	491.1 mVS	19.0
3	Unknown	3.358 VSec	23.2
4	Unknown	6759. VSec	92.9
5	Ethylbenzene	87.38 PPM2	302.4
6	Unknown	17.60 VSec	379.3
7	O Xylene	82.01 PPM2	401.6

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-028PS 5'-7'



Time Printed: Oct 29, 94 10:07

Sample Time: Oct 29, 94 09:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

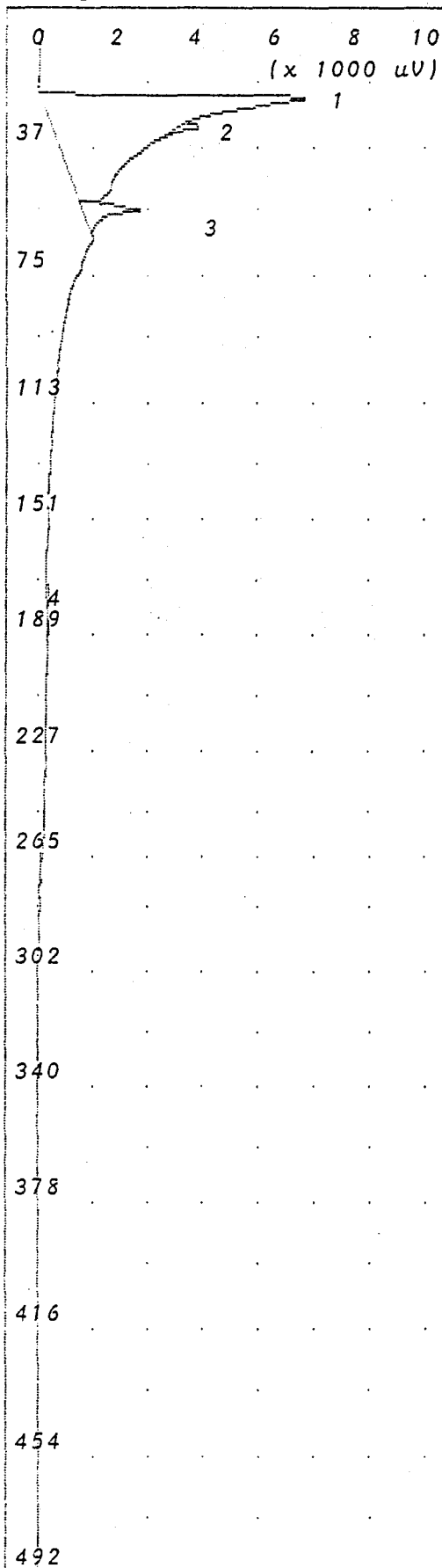
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	60.42 mVS	19.8
2	Unknown	67.51 mVS	28.6
3	Unknown	0.292 mVS	31.5
4	Unknown	26.13 mVS	53.2
5	Unknown	0.273 mVS	62.2
6	Benzene	7.246 ppb	71.3
7	Unknown	0.541 mVS	137.3
8	Toluene	1.527 ppb	148.4
9	Unknown	1.080 mVS	275.7

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-029PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 10:41

Sample Time: Oct 29,94 10:32

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

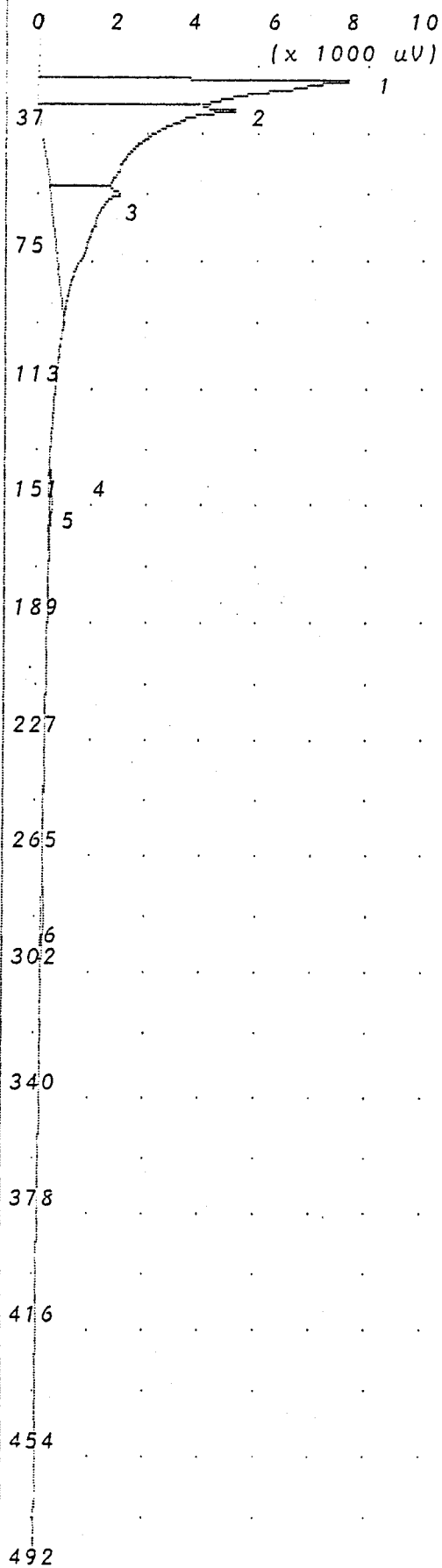
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	89.25 mVS	20.2
2	Unknown	1.133 mVS	29.2
3	Unknown	5.525 mVS	52.6
4	Unknown	0.534 mVS	169.4

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-029PS 5'-7'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 10:52

Sample Time: Oct 29, 94 10:44

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

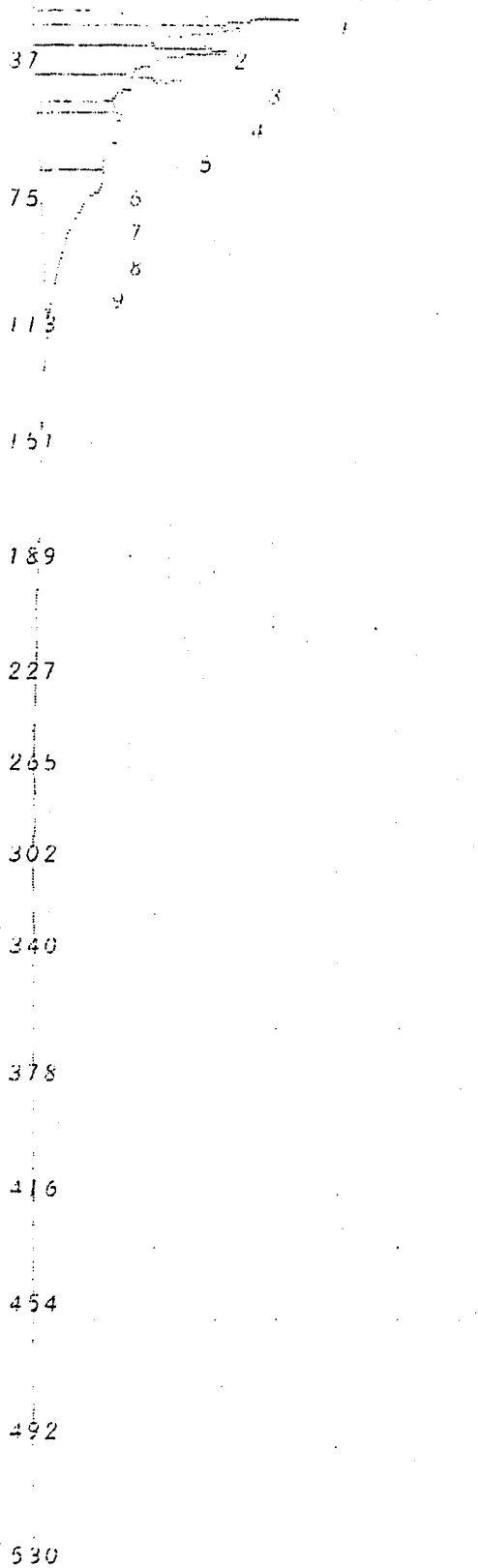
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	50.64 mVS	19.8
2	Unknown	65.61 mVS	28.6
3	Unknown	28.98 mVS	53.8
4	Unknown	0.525 mVS	137.8
5	Toluene	1.138 ppb	150.0
6	Unknown	0.730 mVS	280.2

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-030PS 1'-3'

Analysis #3 10S+ GC Function Analysis Report

0 4 8 12 16 20
(x 1000 uV)



Time Printed: Nov 3.94 09:23

Sample Time: Nov 3.94 09:14

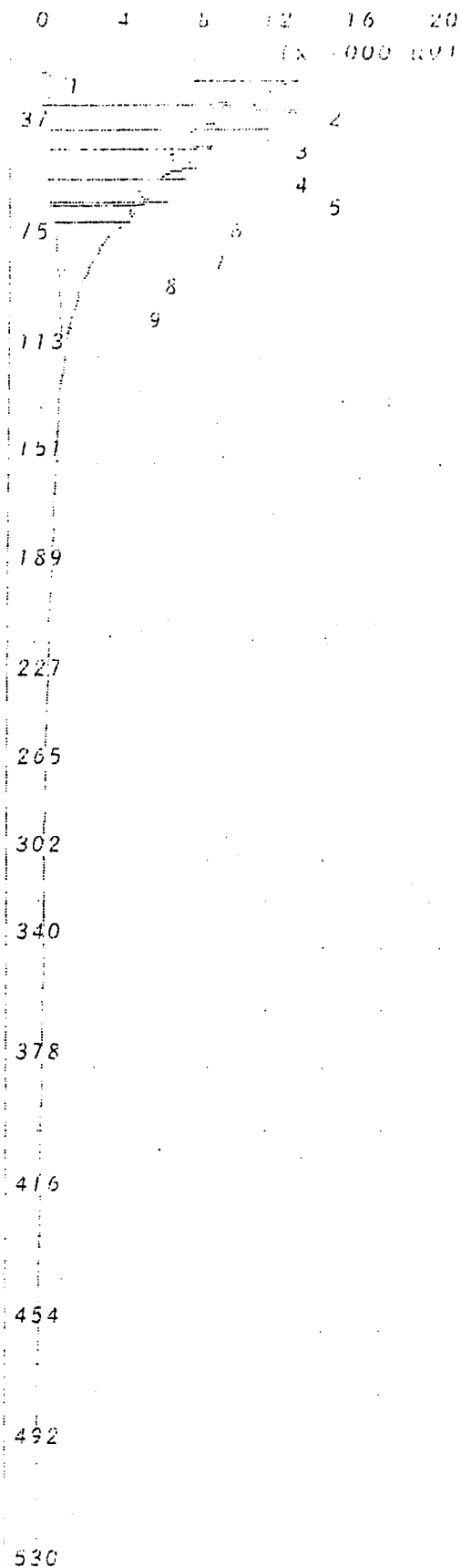
Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
R/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 10 C
Amb Temp 37 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	35.46 mVS	19.2
2	Unknown	0.105 mVS	21.0
3	Unknown	40.06 mVS	22.2
4	Unknown	49.52 mVS	28.3
5	Unknown	33.86 mVS	36.5
6	Unknown	10.58 mVS	43.8
7	Unknown	22.18 mVS	46.5
8	Unknown	32.19 mVS	53.9
9	Benzene	27.78 ppb	62.5

Billy Mitchell ^{NO 12-3} Alk National
Guard Base
Mark Escobar
04-031PS 1'-3'



Time Printed: Nov 3, 94 09:38

Sample Time: Nov 3, 94 09:26

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.746 mVS	18.2
2	Unknown	23.56 mVS	19.8
3	Unknown	11.10 mVS	21.4
4	Unknown	54.44 mVS	22.4
5	Unknown	76.46 mVS	28.6
6	Unknown	45.80 mVS	37.6
7	Unknown	59.08 mVS	44.1
8	Unknown	33.54 mVS	54.1
9	Benzene	39.33 ppb	63.1

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-031PS 5'-7'

0 2 4 6 8 10
(x 1000 uv)

Time Printed: Nov 3, 94 09:50

Sample Time: Nov 3, 94 09:41

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.001 mV/Sec
Min Height 0.010 mV
Analysis Delay 0.0 sec
Injection Percent 20.0 %
Det Flow 12 mL/min
S/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.939 mVS	18.2
2	Unknown	16.63 mVS	19.5
3	Unknown	24.16 mVS	22.4
4	Unknown	24.39 mVS	28.6
5	Unknown	19.80 mVS	36.8
6	Unknown	0.466 mVS	47.3
7	Unknown	4.560 mVS	53.0
8	O Xylene	4.659 ppb	381.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-032PS 1'-3'

0 4 8 12 16 20
x 1000 uV

Time Printed: Nov 3, 94 11:24

Sample Time: Nov 3, 94 11:15

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

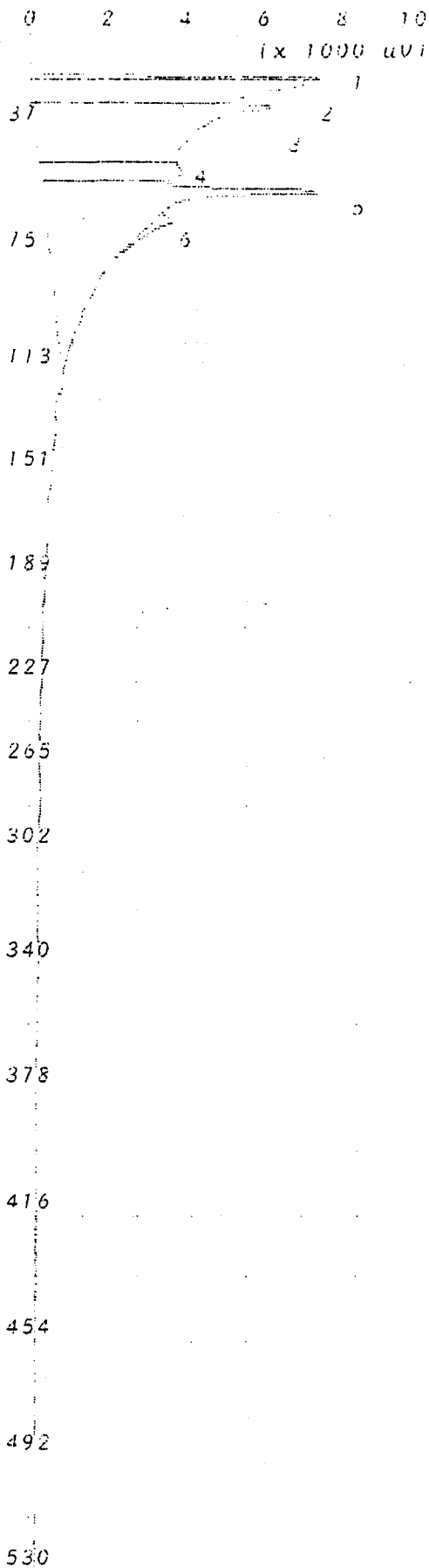
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	77.58 mVS	19.9
2	Unknown	134.5 mVS	28.8
3	Unknown	0.868 mVS	47.5
4	Unknown	143.9 mVS	54.3
5	Benzene	1.986 ppb	63.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-033PS 1'-3'

Analysis #18 10S+ GC Function Analysis Report

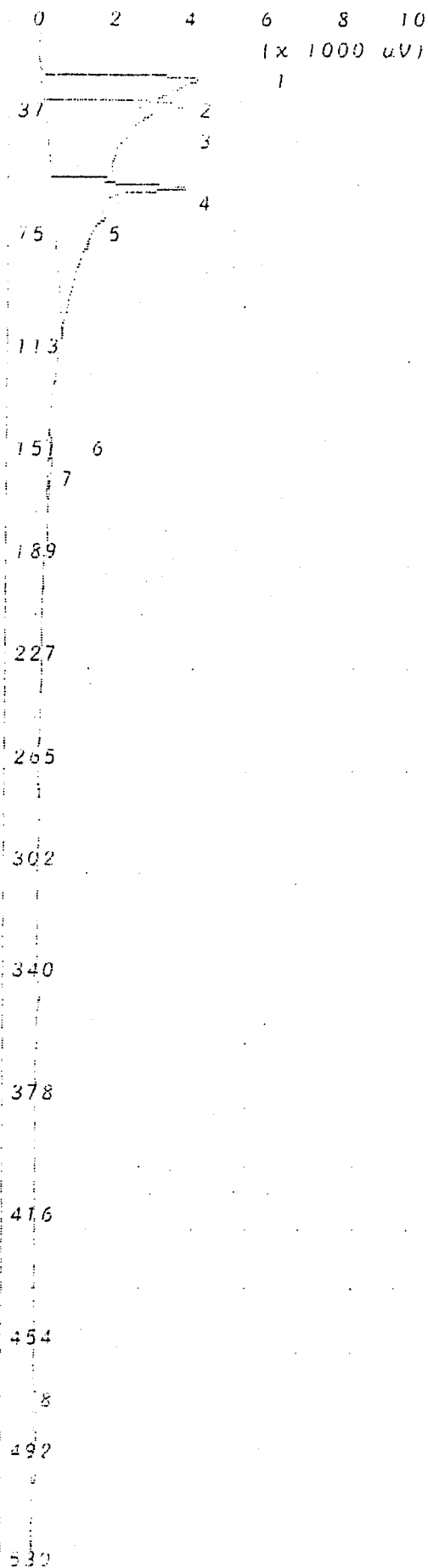


Time Printed: Nov 3, 94 11:42
 Sample Time: Nov 3, 94 11:33
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 F/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 23 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	13.48 mVS	20.0
2	Unknown	41.59 mVS	21.7
3	Unknown	83.58 mVS	28.9
4	Unknown	19.33 mVS	49.0
5	Unknown	99.21 mVS	54.5
6	Benzene	1.280 ppb	63.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-033PS 3'-5'



Time Printed: Nov 3, 94 12:50

Sample Time: Nov 3, 94 12:41

Method

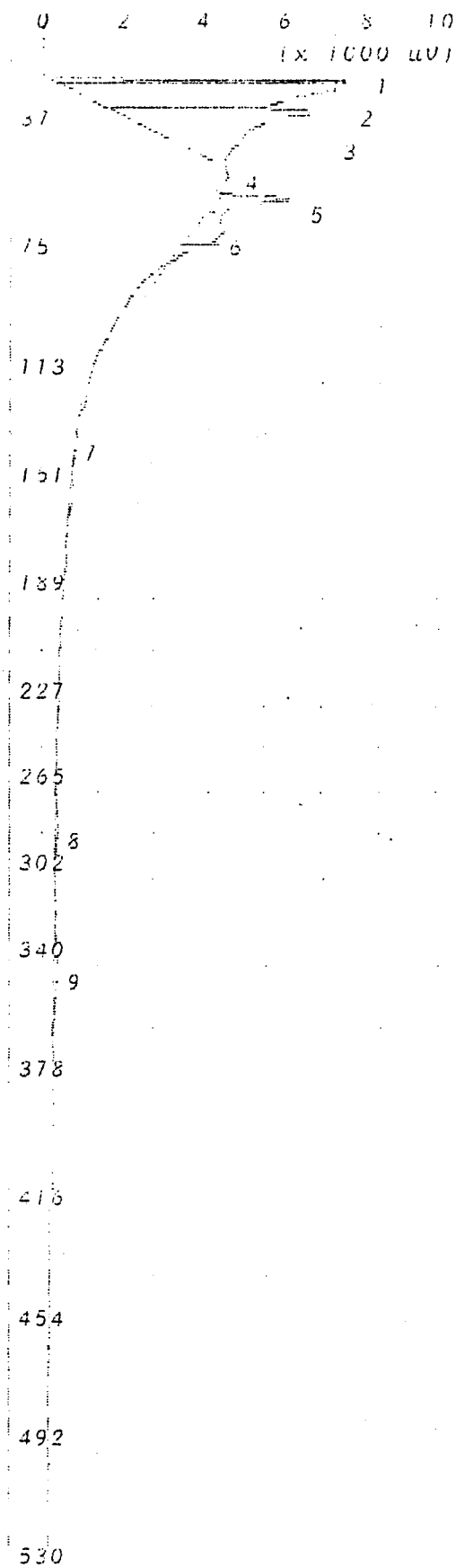
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amp Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	30.56 mVS	19.9
2	Unknown	0.123 mVS	22.9
3	Unknown	52.92 mVS	29.3
4	Unknown	39.96 mVS	54.6
5	Benzene	0.223 ppb	63.4
6	Unknown	0.079 mVS	141.4
7	Toluene	1.044 ppb	149.6
8	O Xylene	5.285 ppb	464.4

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-034PS 1'-3'



Time Printed: Nov 3.94 13:01

Sample Time: Nov 3.94 12:52

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	12.40 mVS	20.0
2	Unknown	37.10 mVS	21.9
3	Unknown	36.06 mVS	29.0
4	Unknown	1.027 mVS	47.6
5	Unknown	10.35 mVS	54.5
6	Benzene	8.733 ppb	63.7
7	Toluene	0.853 ppb	130.0
8	Ethylbenzene	0.509 ppb	278.1
9	MP Xylene	1.275 ppb	338.3

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-034PS 3'-5'

Analysis #27 10S+ GC Function Analysis Report

0 4 8 12 16 20
1x 1000 uV

Time Printed: Nov 3, 94 13:13

Sample Time: Nov 3, 94 13:04

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	58.46 mVS	20.0
2	Unknown	46.65 mVS	28.8
3	Unknown	0.196 mVS	37.1
4	Unknown	0.130 mVS	47.4
5	Unknown	0.201 mVS	47.4
6	Unknown	2.189 mVS	54.5
7	Unknown	0.076 mVS	261.8
8	Ethylbenzene	1.065 ppt	280.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-034PS 5'-7'

37 2

3

4

5

75 6

113

151

189

227

265

7

18

302

340

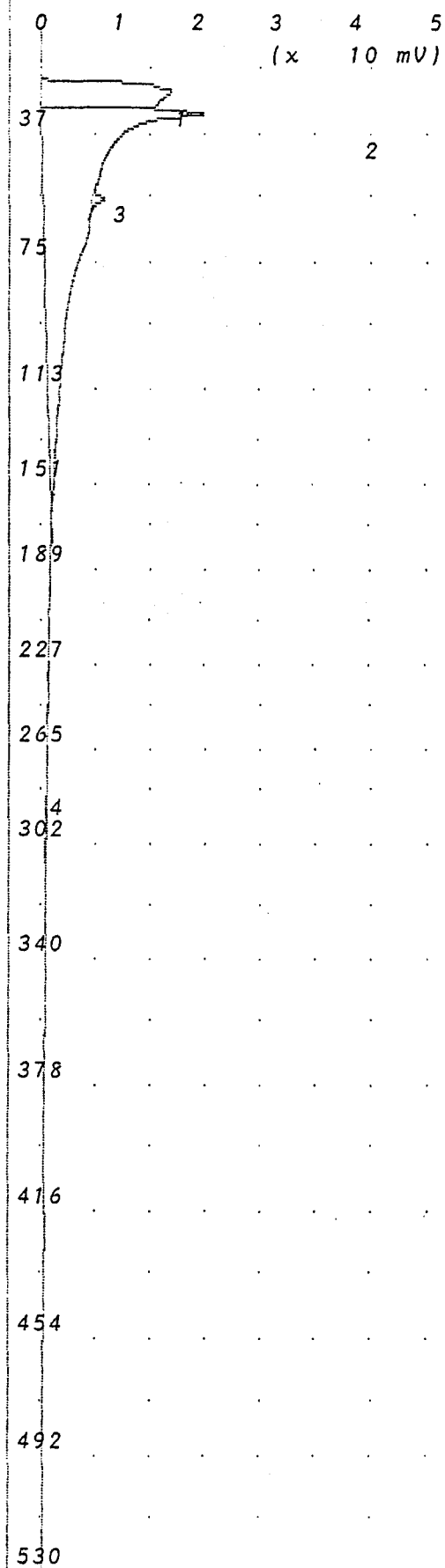
378

416

454

492

530



Time Printed: Oct 29, 94 15:40

Sample Time: Oct 29, 94 15:31

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

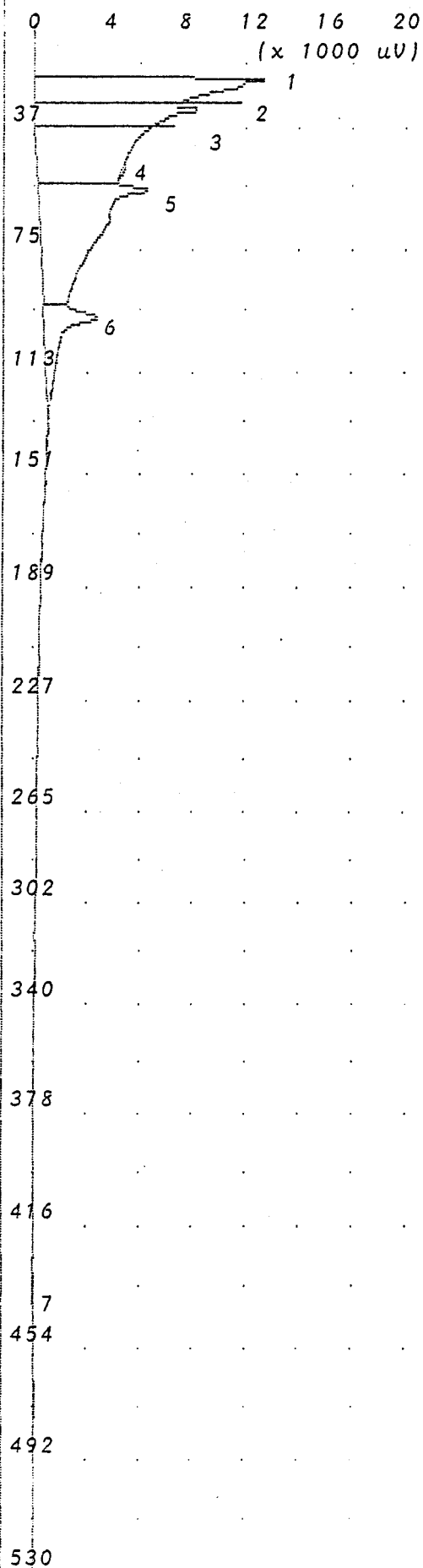
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	128.4 mVS	22.3
2	Unknown	536.0 mVS	28.8
3	Unknown	3.740 mVS	54.8
4	Unknown	1.449 mVS	285.8

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-035PS 1'-3'

Analysis #29 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:52

Sample Time: Oct 29,94 15:43

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 30 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	25.23 mVS	20.6
2	Unknown	61.64 mVS	22.4
3	Unknown	138.9 mVS	29.8
4	Unknown	0.365 mVS	48.4
5	Unknown	109.4 mVS	55.0
6	Unknown	30.25 mVS	93.8
7	Unknown	1.343 mVS	435.6

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-035PS 5'-7'

0 2 4 6 8 10
(x 1000 uV)

Time Printed: Nov 3, 94 13:37

Sample Time: Nov 3, 94 13:28

Method

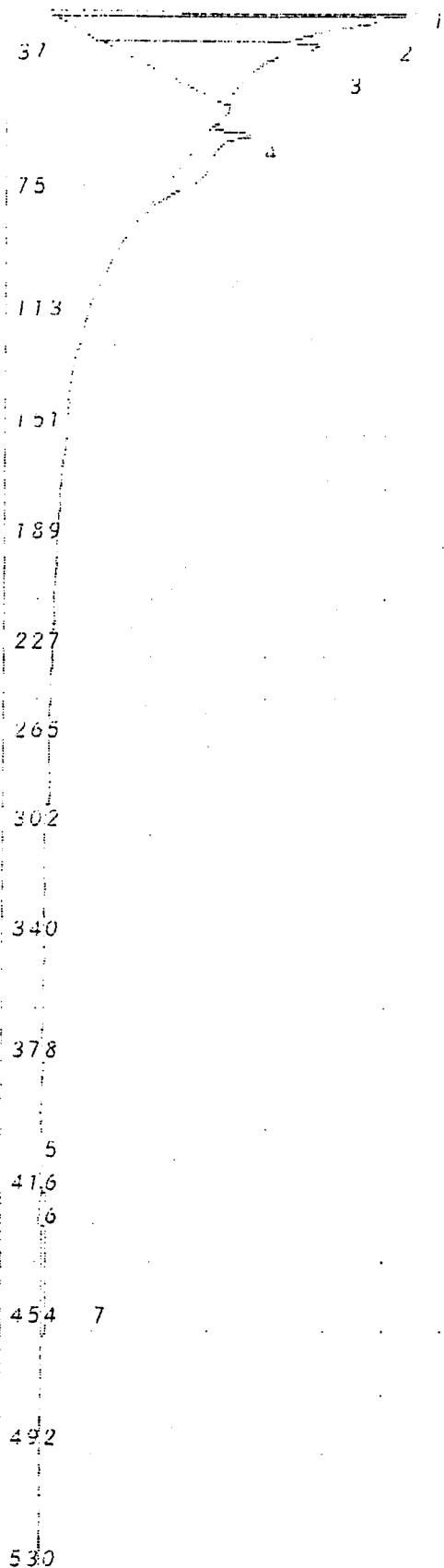
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
R/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 12 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	16.06 mVS	19.9
2	Unknown	41.16 mVS	21.6
3	Unknown	43.20 mVS	28.8
4	Unknown	12.19 mVS	54.4
5	O Xylene	1.507 ppb	397.0
6	Unknown	0.447 mVS	416.0
7	Unknown	4.841 mVS	443.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-036PS 1'-3'



0 2 8 12 16 20
(x 1000 uv)

Time Printed: Nov 3, 94 14:21

Sample Time: Nov 3, 94 14:18

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
S/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	379.4 mVS	22.6
2	Unknown	2.008 mVS	31.2
3	Unknown	0.469 mVS	49.7
4	Unknown	3.211 mVS	56.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-037PS 1'-3'

530

0 4 8 12 16 20
 (x 1000 uV)

Time Printed: Nov 3.94 14:39

Sample Time: Nov 3.94 14:30

Method

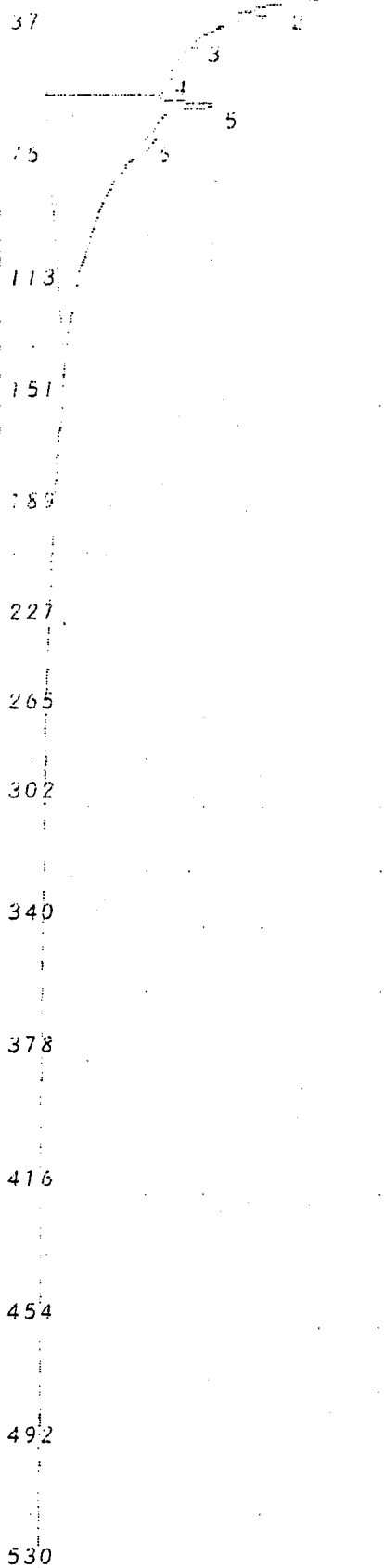
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 31 C
 Max Gain 1000
 Analysis Time 530.0 sec

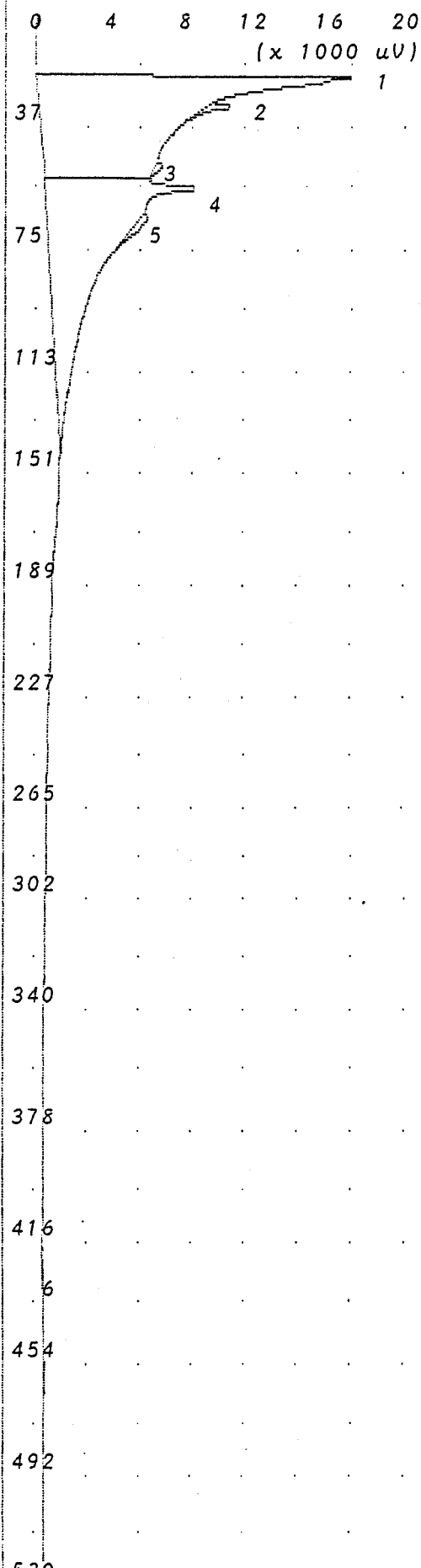
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	299.9 mVS	21.8
2	Unknown	3.085 mVS	29.3
3	Unknown	0.641 mVS	37.5
4	Unknown	0.703 mVS	47.6
5	Unknown	195.6 mVS	55.0
6	Benzene	1.879 ppb	63.5

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-037PS 5'-7'





Time Printed: Oct 29, 94 14:31

Sample Time: Oct 29, 94 14:22

Method

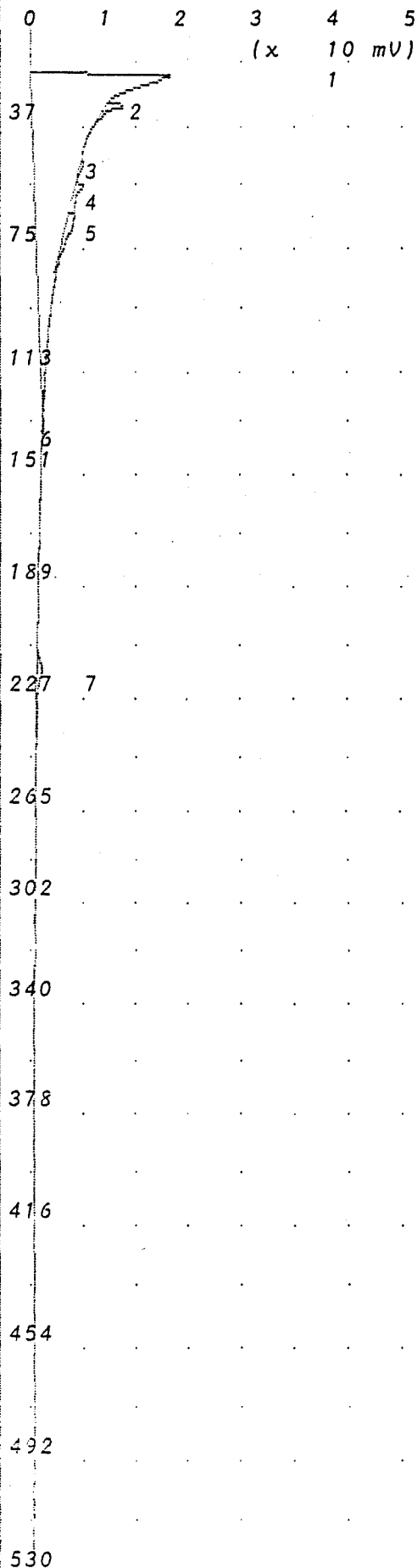
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	287.3 mVS	20.0
2	Unknown	2.650 mVS	29.0
3	Unknown	1.266 mVS	47.4
4	Unknown	203.3 mVS	54.4
5	Unknown	2.937 mVS	63.4
6	O Xylene	18.42 ppb	420.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS 1'-3'



Time Printed: Oct 29,94 14:42

Sample Time: Oct 29,94 14:33

Method

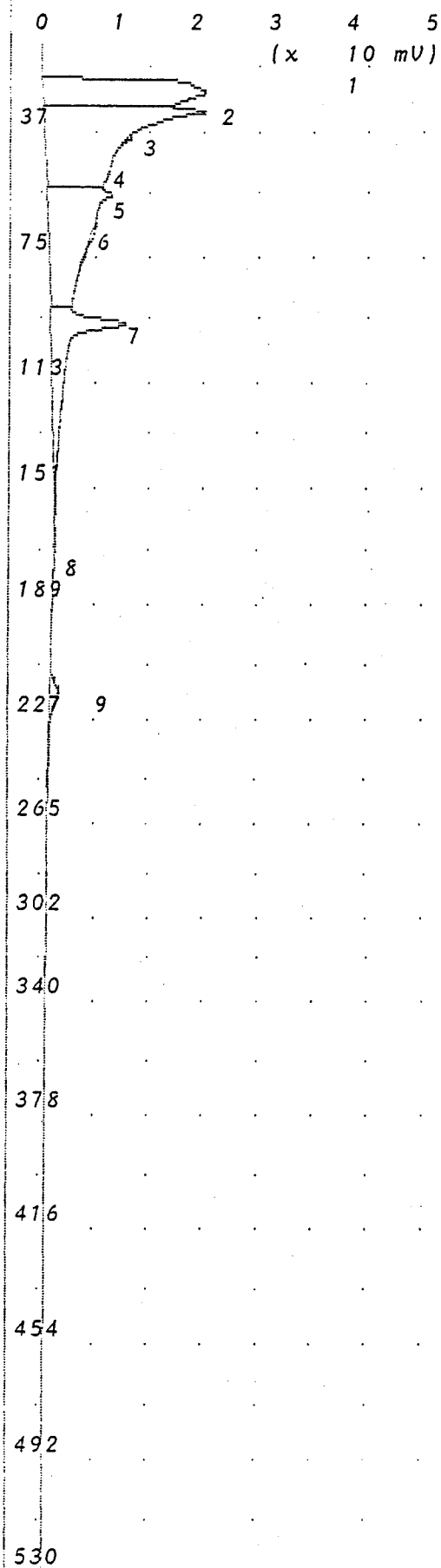
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	497.4 mVS	20.1
2	Unknown	5.374 mVS	29.1
3	Unknown	0.942 mVS	47.2
4	Unknown	5.836 mVS	54.2
5	Unknown	7.740 mVS	62.8
6	Unknown	0.054 mVS	130.9
7	Unknown	7.092 mVS	215.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS 5'-7'



Time Printed: Oct 29, 94 14:53

Sample Time: Oct 29, 94 14:44

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 31 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	164.4 mVS	20.3
2	Unknown	281.0 mVS	29.1
3	Unknown	0.658 mVS	37.2
4	Unknown	0.536 mVS	47.2
5	Unknown	188.2 mVS	54.5
6	Unknown	1.741 mVS	62.8
7	Unknown	118.5 mVS	93.3
8	Unknown	0.082 mVS	164.4
9	Unknown	13.24 mVS	215.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-038PS 10'-12'

0 2 4 6 8 10

1x 10 mV

Time Printed: Nov 8, 94 10:27

Sample Time: Nov 8, 94 10:19

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Plz	Compound Name	Area/Conc	R.T.
1	Unknown	13.80 mVS	20.7
2	Unknown	15.72 mVS	24.4
3	Unknown	91.37 mVS	30.3
4	Unknown	95.21 mVS	33.5
5	Unknown	34.92 mVS	36.0
6	Unknown	25.16 mVS	39.2
7	Unknown	164.5 mVS	46.8
8	Unknown	122.7 mVS	51.0
9	Unknown	176.5 mVS	55.8
10	Unknown	121.4 mVS	64.0
11	Benzene	9.017 ppb	73.6
12	Unknown	57.41 mVS	78.2
13	Unknown	95.71 mVS	81.4
14	Unknown	83.68 mVS	86.6
15	Unknown	82.23 mVS	93.4
16	Unknown	125.3 mVS	102.5
17	Unknown	98.44 mVS	117.4
18	Unknown	64.94 mVS	129.0
19	Toluene	9.806 ppb	149.2
20	Unknown	53.16 mVS	167.8
21	Unknown	83.76 mVS	177.2
22	Unknown	0.866 mVS	195.4
23	Unknown	43.36 mVS	217.2
24	MP Xylene	4.283 ppb	333.8

Notes

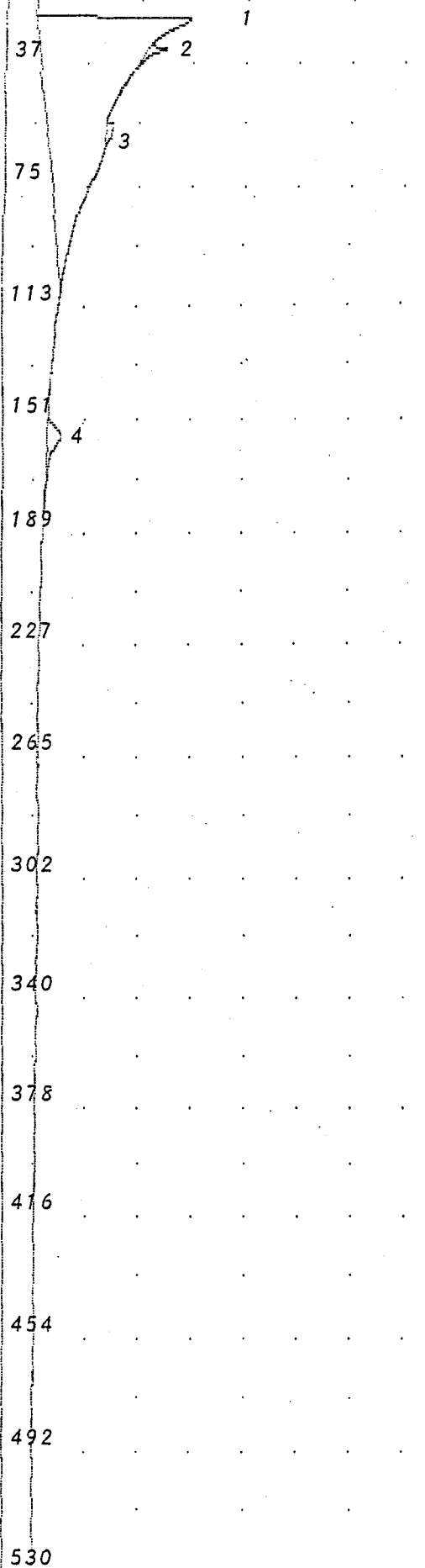
Billy Mitchell Air National
Guard Base

Mark Escobar
04-001MW GW

530

Analysis #7 10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 1000 uV)



Time Printed: Nov 9,94 13:12

Sample Time: Nov 9,94 13:04

Method

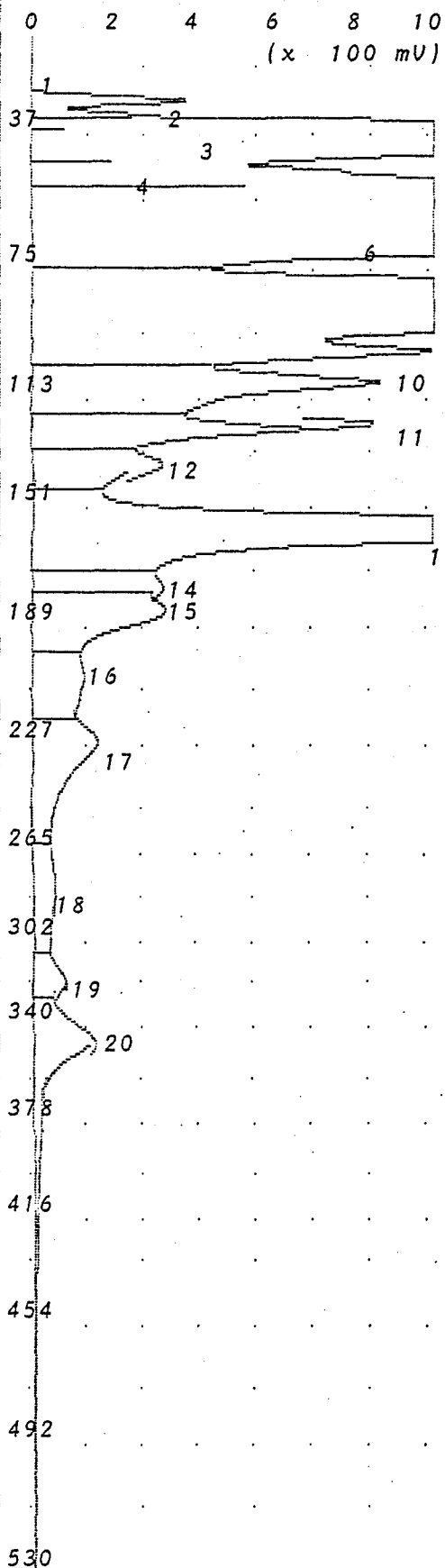
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	146.1 mVS	21.0
2	Unknown	0.589 mVS	31.0
3	Unknown	0.887 mVS	53.9
4	Toluene	3.704 ppb	154.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-002MW



Time Printed: Nov 9, 94 13:24

Sample Time: Nov 9, 94 13:15

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.224 mVS	19.9
2	Unknown	234.4 mVS	24.2
3	Unknown	933.8 mVS	25.4
4	Unknown	341.2 mVS	29.4
5	Unknown	48.08 VSec	36.0
6	Unknown	1.958 VSec	45.7
7	Unknown	145.1 VSec	56.8
8	Benzene	35.55 ppm	83.4
9	Unknown	6.244 VSec	96.6
10	Unknown	8.347 VSec	106.1
11	Unknown	7.192 VSec	121.2
12	Unknown	4.045 VSec	133.2
13	Toluene	10.49 ppm	155.2
14	Unknown	3.040 VSec	172.0
15	Unknown	4.258 VSec	181.8
16	Unknown	2.353 VSec	201.0
17	Unknown	4.082 VSec	223.4
18	Unknown	2.330 VSec	278.4
19	Ethylbenzene	1.317 ppm	319.7
20	MP Xylene	12.95 ppm	343.3

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-002MW
 5x Dilution

Analysis #1 10S+ GC Function Analysis Report

0 1 2 3 4 5
(x 1000 uV)

Time Printed: Nov 8, 94 10:40

Sample Time: Nov 8, 94 10:31

Method

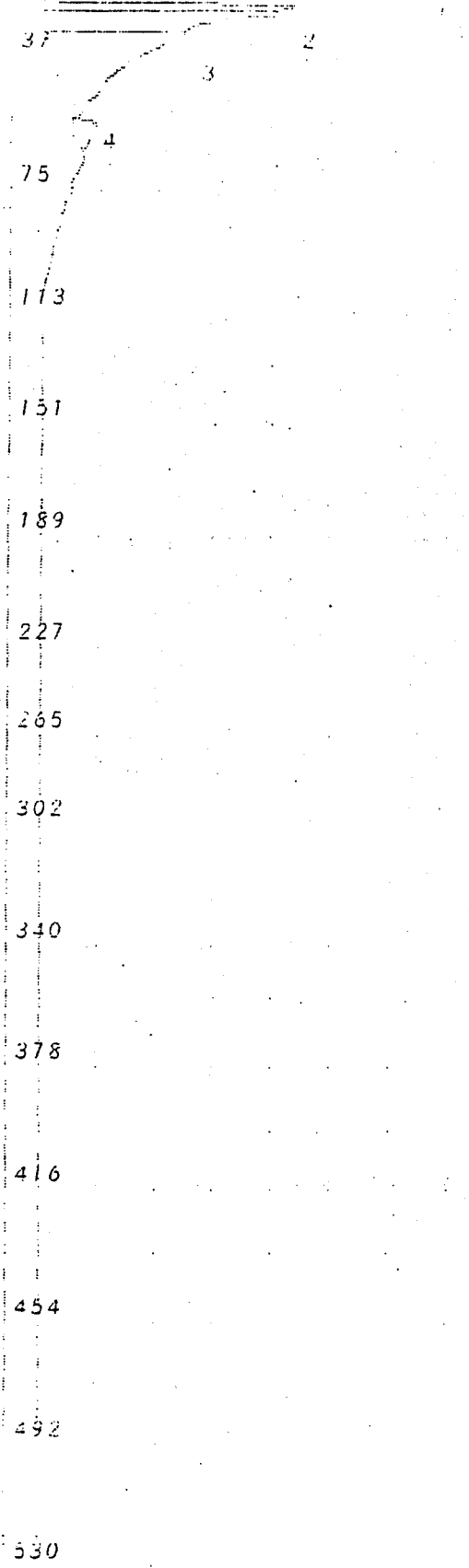
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

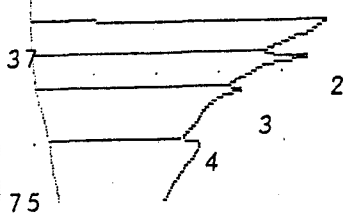
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.116 mVS	20.0
2	Unknown	15.02 mVS	22.8
3	Unknown	18.94 mVS	29.5
4	Unknown	1.562 mVS	55.3

Notes

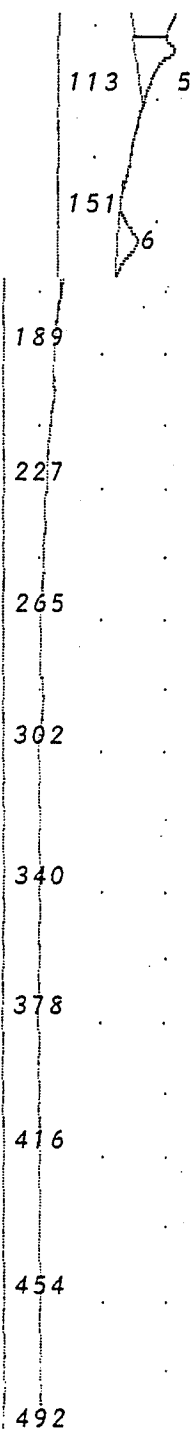
Billy Mitchell Air National
Guard Base
Mark Escobar
04-004MW GW



Analysis #62 805+ GC Function: Ambient Air Response 9,94 13:01
 (x 1000 uV) Sample Time: Nov 9,94 12:52
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec



Window Percent 10.0 %



B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.99 mVS	22.0
2	Unknown	23.71 mVS	31.9
3	Unknown	25.29 mVS	40.7
4	Unknown	42.62 mVS	54.2
5	Unknown	4.012 mVS	98.4
6	Toluene	2.734 ppb	154.4

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-005MW (GW) B

0 4 8 12 16 20
(x 1000 uV)

Time Printed: Nov 4.94 12:29

Sample Time: Nov 4.94 12:20

Method

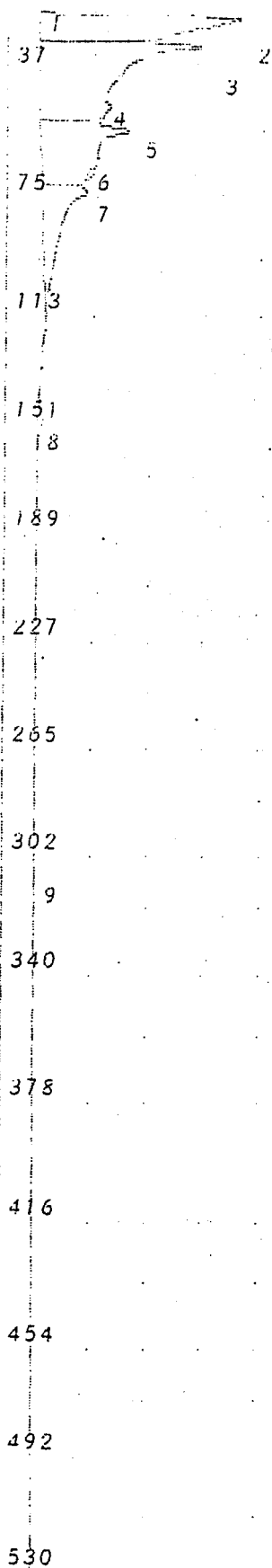
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.036 mVS	17.0
2	Unknown	68.66 mVS	19.7
3	Unknown	106.3 mVS	28.3
4	Unknown	1.060 mVS	46.3
5	Unknown	54.60 mVS	53.6
6	Unknown	1.448 mVS	62.0
7	Benzene	18.07 ppb	71.0
8	Toluene	2.180 ppb	147.2
9	Ethylbenzene	2.096 ppb	308.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-001MW 2'-4'



Analysis #8

10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 1000 uV)

Time Printed: Nov 7, 94 15:25

Sample Time: Nov 7, 94 15:16

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	48.03 mVS	19.4
2	Unknown	57.96 mVS	28.4
3	Unknown	18.27 mVS	46.5
4	Unknown	46.96 mVS	54.4
5	Toluene	1.089 ppb	135.6
6	Unknown	1.965 mVS	433.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-002MW 1'-3'

37
75
113
151
189
227
265
302
340
378
416
454
492
530

0 2 4 6 8 10

(x 1000 uV)

Time Printed: Nov 7, 94 15:37

Sample Time: Nov 7, 94 15:28

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 mL/min

B/F Flow 12 mL/min

Aux Flow 0 mL/min

Oven Temp 40 C

Amb Temp 33 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

Plc	Compound Name	Area/Conc	R.T.
1	Unknown	1.249 mVS	18.3
2	Unknown	19.58 mVS	19.6
3	Unknown	22.48 mVS	22.5
4	Unknown	19.73 mVS	28.6
5	Unknown	7.988 mVS	36.8
6	Unknown	0.499 mVS	46.8
7	Unknown	0.782 mVS	54.2
8	Toluene	2.061 ppb	147.0
9	Ethylbenzene	3.693 ppb	293.3

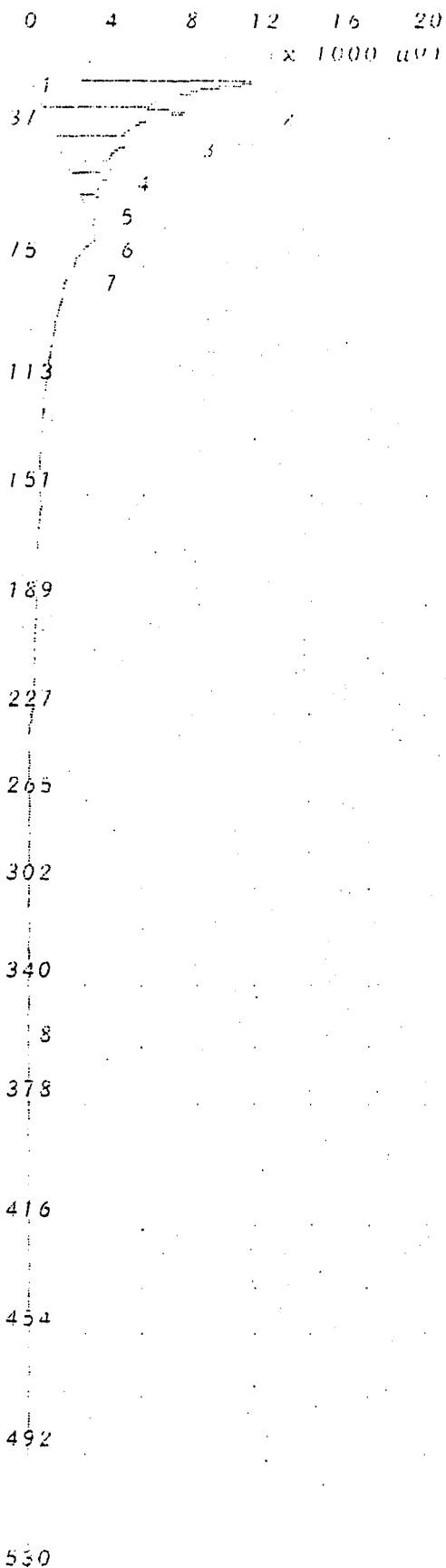
Notes

Billy Mitchell Air National
Guard Base

Mark Escobar

04-002MW 10'-12'

Analysis #12 10S+ GC-Function Analysis Report



Time Printed: Nov 7, 94 16:14
 Sample Time: Nov 7, 94 16:05
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 R/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.236 mVS	18.6
2	Unknown	66.53 mVS	20.1
3	Unknown	43.80 mVS	29.2
4	Unknown	19.45 mVS	38.5
5	Unknown	6.670 mVS	45.0
6	Unknown	7.959 mVS	47.6
7	Unknown	4.788 mVS	54.6
8	MP Xylene	1.051 ppb	348.3

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-003MW 1'-3'

Analysis #13 10S+ GC Function Analysis Report

0 2 4 6 8 10
 (x 100 mV)

Time Printed: Nov 7, 94 16:30

Sample Time: Nov 1, 94 16:17

Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

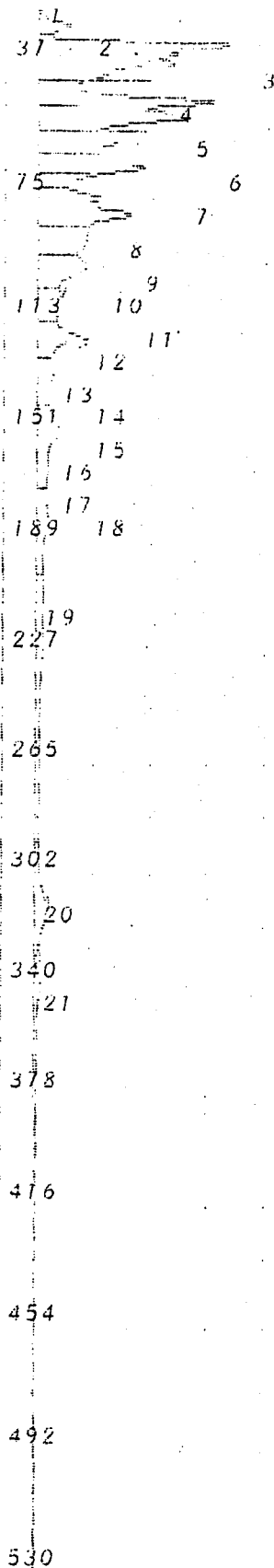
Plz	Compound Name	Area/Conc	R.T.
1	Unknown	17.94 mVS	20.0
2	Unknown	287.1 mVS	23.8
3	Unknown	1.350 VSec	29.7
4	Unknown	892.7 mVS	32.7
5	Unknown	1.378 VSec	35.4
6	Unknown	1.807 VSec	46.1
7	Unknown	1.590 VSec	50.2
8	Unknown	945.6 mVS	57.1
9	Unknown	1.598 VSec	64.2
10	Benzene	82.80 ppb	73.0
11	Unknown	1.981 VSec	77.7
12	Unknown	864.0 mVS	92.2
13	Unknown	720.7 mVS	101.7
14	Unknown	3.447 mVS	108.2
15	Unknown	1.001 VSec	116.6
16	Unknown	466.6 mVS	127.6
17	Toluene	96.29 ppb	148.0
18	Unknown	657.3 mVS	176.4
19	Unknown	1.119 VSec	203.4
20	Ethylbenzene	70.83 ppb	311.2
21	MP Xylene	1.002 ppm	335.7

Notes

Billy Mitchell Air National
 Guard Base

Mark Escobar

04-003MW 5'-7'



0 2 4 6 8 10
x 100 mV)

Time Printed: Nov 7, 94 16:42

Sample Time: Nov 7, 94 16:33

Method

1 Slope Up 3.000 mV/Sec
2 Slope Down 3.000 mV/Sec
3 Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
4 Det Flow 10 mL/min
5 B/F Flow 10 mL/min
6 Aux Flow 0 mL/min
7 Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

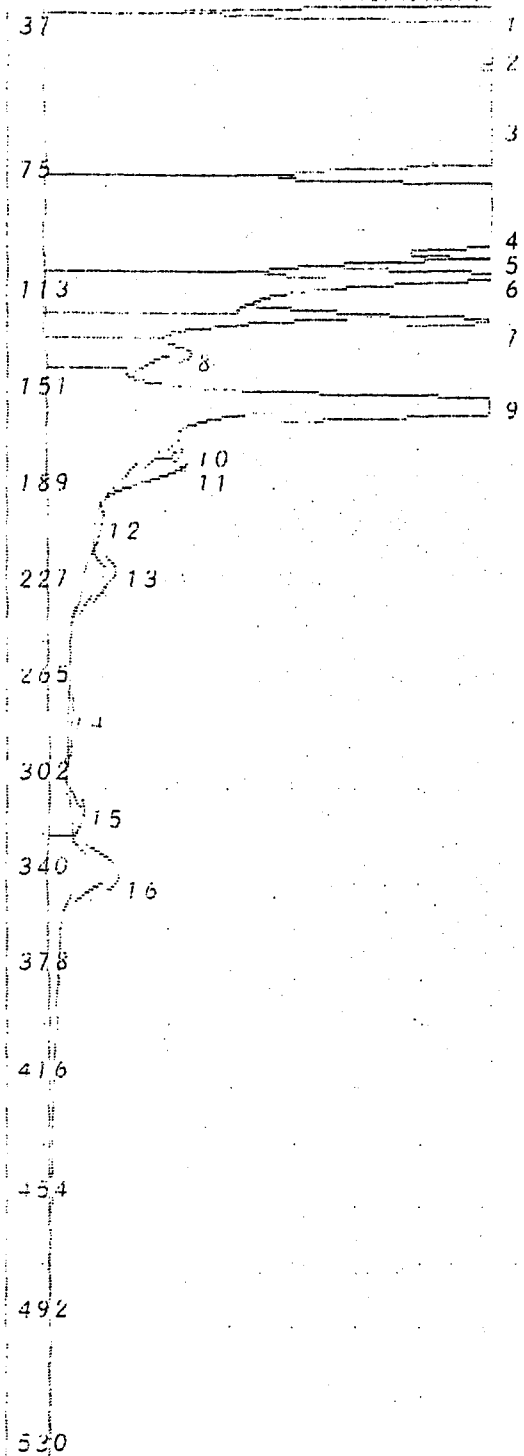
Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	3.487 VSec	25.2
2	Unknown	37.38 VSec	35.5
3	Unknown	128.2 VSec	54.0
4	Unknown	79.62 VSec	80.9
5	Unknown	7.747 VSec	93.7
6	Unknown	9.922 VSec	103.2
7	Unknown	1.813 VSec	118.0
8	Unknown	3.735 VSec	129.6
9	Toluene	21.40 ppm	151.2
10	Unknown	233.1 mVS	167.2
11	Unknown	860.8 mVS	177.0
12	Unknown	135.3 mVS	196.0
13	Unknown	853.0 mVS	218.0
14	Unknown	227.4 mVS	271.2
15	Ethylbenzene	40.47 ppb	312.2
16	MP Xylene	14.96 ppm	335.4

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-003MW 10'-12'
10X Dilution



0 1 2 3 4 5

NAME: NO: 4.84 15:01

method

Slope Power 2.000 mW/Sec

Min Height 1.000 mV

Window Percent 10.0 %

B/F Flow 10 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 33 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

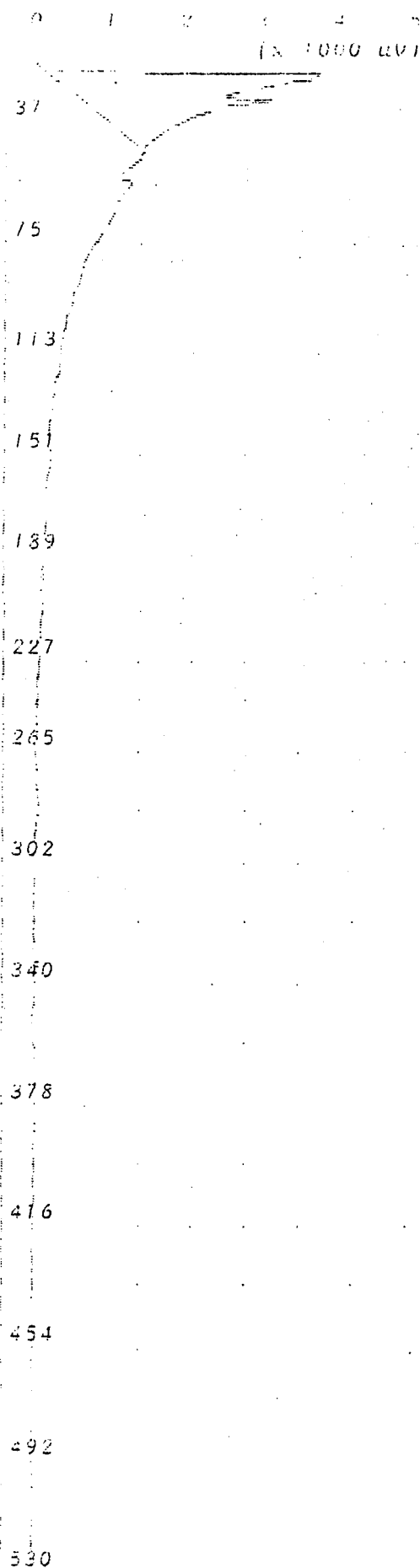
Plz Compound Name	Area/Conc	R.T.
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1	Unknown	208.5 mVS	20.4
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Notes

Billy Mitchell Air National
Guard Base

04-004mw 1-3'



Time Started: Nov 4.94 11:00

Sample Time: Nov 4.94 13:51

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	mL/min
B/F Flow	10	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

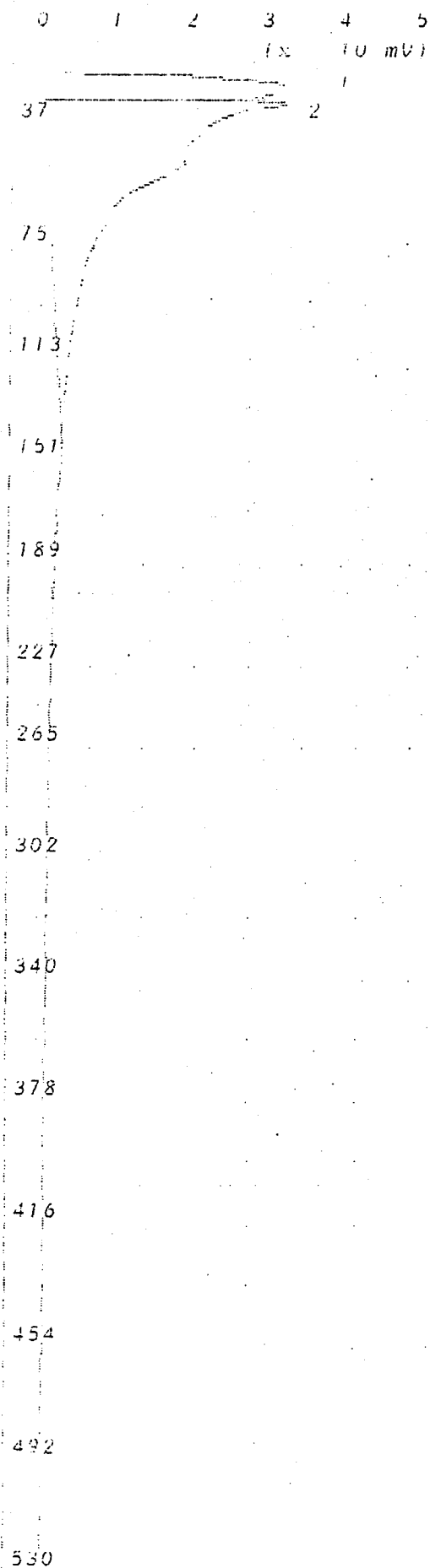
Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	41.87 mVS	19.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-004MW 5'-7'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Nov 4, 94 14:36

Sample Time: Nov 4, 94 14:27

Method

Slope Up 2.000 mV/Sec
 Slope Down 2.000 mV/Sec
 Min Area 2.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	255.7 mVS	20.0
2	Unknown	852.1 mVS	28.8

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-004MW 10'-12'

0 1 2

3 4 5

Time Printed: Nov 7, 94 14:49

1X 10 mV)

Sample Time: Nov 7, 94 14:40

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 mL/min

B/F Flow 12 mL/min

Aux Flow 0 mL/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	20.76 mVS	19.4
2	Unknown	24.54 mVS	23.0
3	Unknown	0.052 mVS	26.5
4	Unknown	51.20 mVS	28.3
5	Unknown	36.94 mVS	31.6
6	Unknown	22.73 mVS	34.2
7	Unknown	17.71 mVS	37.0
8	Unknown	55.61 mVS	44.2
9	Unknown	35.41 mVS	48.3
10	Unknown	35.66 mVS	53.6
11	Unknown	52.23 mVS	62.8
12	Benzene	5.277 ppb	71.0
13	Unknown	15.73 mVS	75.0
14	Unknown	55.58 mVS	80.4
15	Unknown	80.54 mVS	91.8
16	Unknown	18.73 mVS	114.1
17	Unknown	13.11 mVS	126.1
18	Toluene	49.56 ppb	142.4
19	Unknown	0.326 mVS	185.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW 1'-3'

0 2 4 6 8 10

(X 1000 V)

Time Printed: Nov 7.94 15:01

Sample Time: Nov 7.94 14:52

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	32.27 mVS	20.6
2	Unknown	25.88 mVS	29.4
3	Unknown	9.798 mVS	44.8
4	Unknown	5.956 mVS	54.4
5	Unknown	6.626 mVS	64.5
6	Benzene	2.195 ppb	72.5
7	Unknown	4.385 mVS	81.6
8	Unknown	2.024 mVS	92.5
9	Unknown	1.214 mVS	131.6
10	Toluene	1.279 ppb	146.6

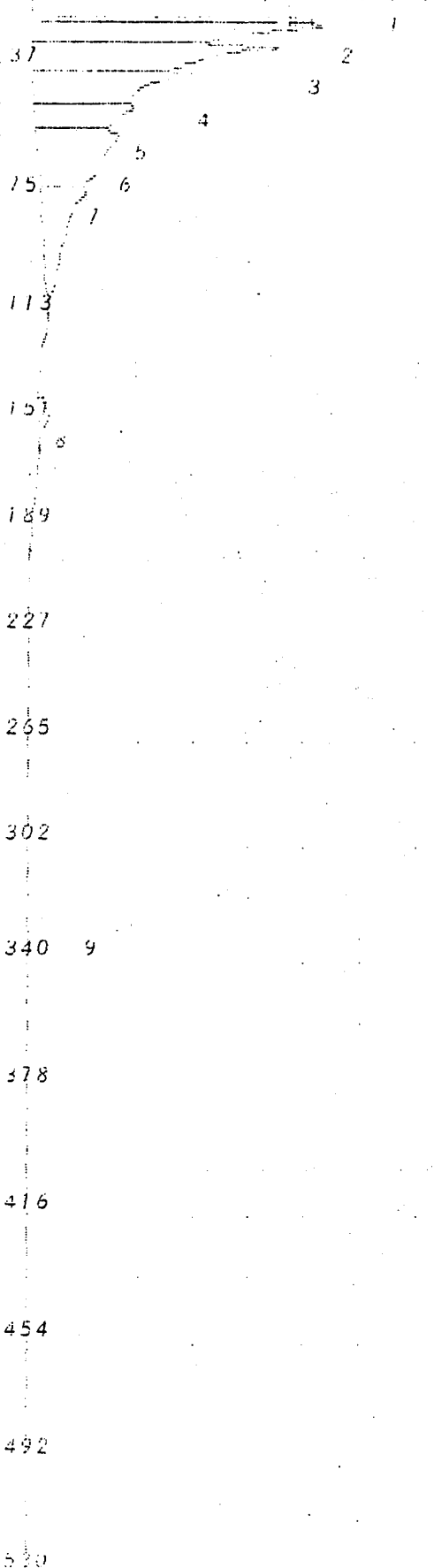
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW 5'-7'

Analysis #1: 10S+ GC Function Analysis Report

0 2 4 6 8 10

(x 1000 uV)



Time Printed: Nov 7, 94 15:13

Sample Time: Nov 7, 94 15:04

Method

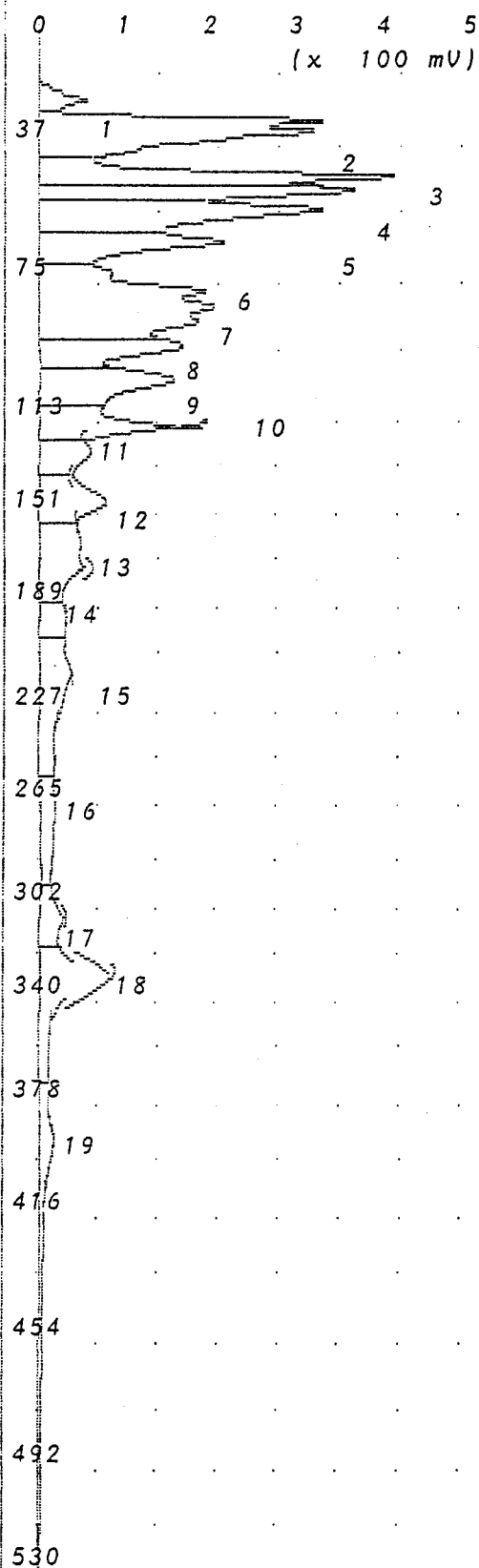
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	14.39 mVS	19.5
2	Unknown	39.57 mVS	21.4
3	Unknown	40.20 mVS	28.4
4	Unknown	30.43 mVS	36.6
5	Unknown	15.32 mVS	46.2
6	Unknown	29.75 mVS	54.2
7	Benzene	11.49 ppb	71.2
8	Toluene	3.627 ppb	146.4
9	MP Xylene	21.01 ppb	329.6

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-005MW 10'-12'



Time Printed: Oct 31, 94 14:57

Sample Time: Oct 31, 94 14:33

Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	254.7 mVS	22.9
2	Unknown	2.547 VSec	28.4
3	Unknown	1.864 VSec	43.9
4	Unknown	1.153 VSec	47.8
5	Unknown	2.090 VSec	53.0
6	Unknown	1.145 VSec	61.6
7	Unknown	3.104 VSec	79.4
8	Unknown	989.4 mVS	90.1
9	Unknown	1.190 VSec	99.2
10	Unknown	1.726 VSec	112.9
11	Unknown	620.9 mVS	125.2
12	Toluene	432.4 ppb	145.6
13	Unknown	1.399 VSec	172.8
14	Unknown	491.1 mVS	192.2
15	Unknown	1.295 VSec	212.4
16	Unknown	629.4 mVS	264.8
17	Ethylbenzene	376.4 ppb	306.1
18	MP Xylene	3.270 ppm	329.6
19	O Xylene	2.615 ppm	383.6

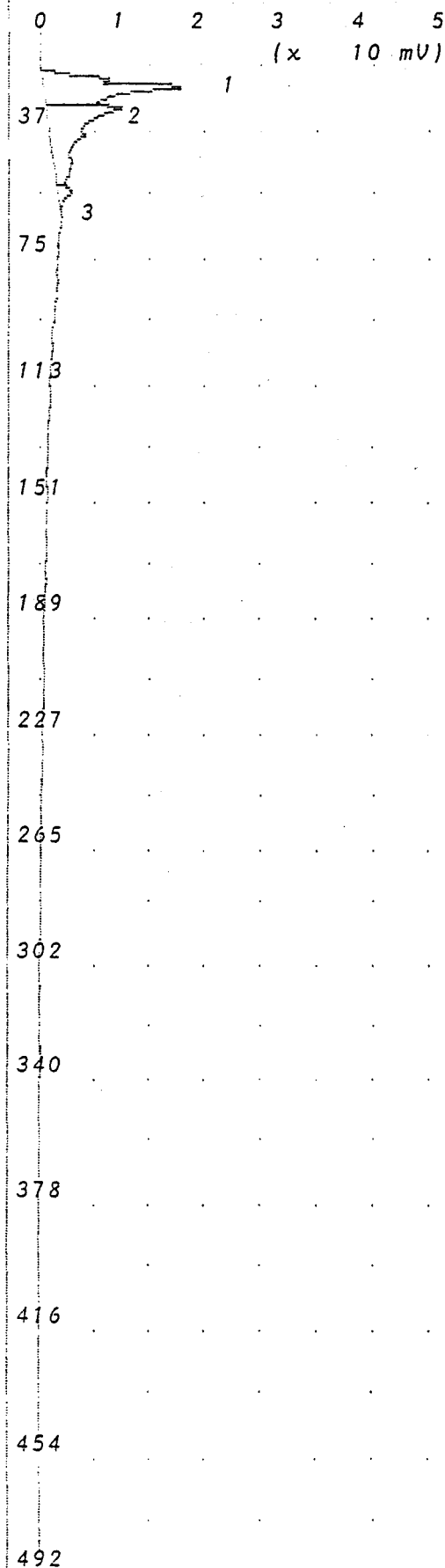
Notes

Billy Mitchell Air National
Guard Base

Mark Escobar

04-001P 1'-3'

2 (m)



Time Printed: Oct 31, 94 15:09

Sample Time: Oct 31, 94 15:00

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

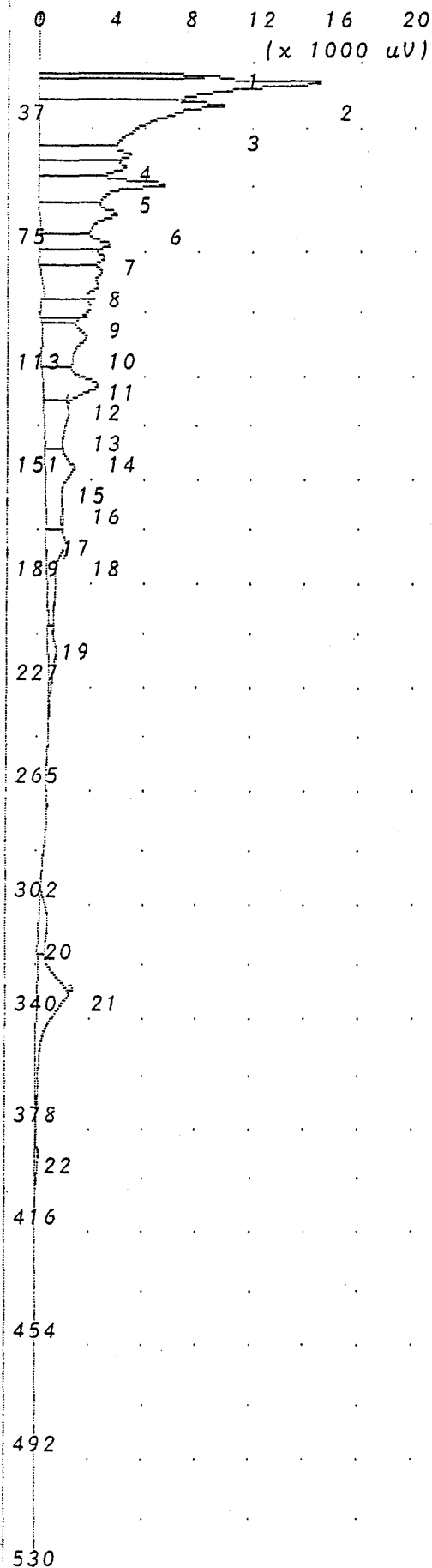
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	100.5 mVS	21.7
2	Unknown	90.09 mVS	28.6
3	Unknown	6.532 mVS	53.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-001P 5'-7'

7
(MS)



Time Printed: Nov 1, 94 09:48

Sample Time: Nov 1, 94 09:39

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.71 mVS	19.6
2	Unknown	73.18 mVS	21.6
3	Unknown	92.68 mVS	28.4
4	Unknown	20.38 mVS	43.8
5	Unknown	18.78 mVS	47.7
6	Unknown	37.15 mVS	52.9
7	Unknown	31.21 mVS	61.8
8	Benzene	11.01 ppb	70.9
9	Unknown	13.35 mVS	74.9
10	Unknown	14.61 mVS	79.4
11	Unknown	14.67 mVS	83.4
12	Unknown	18.48 mVS	90.0
13	Unknown	25.59 mVS	99.0
14	Unknown	26.24 mVS	113.7
15	Unknown	16.61 mVS	125.4
16	Toluene	40.47 ppb	145.0
17	Unknown	0.178 mVS	163.6
18	Unknown	21.53 mVS	172.4
19	Unknown	8.332 mVS	210.4
20	Ethylbenzene	13.12 ppb	306.1
21	MP Xylene	188.6 ppb	328.8
22	O Xylene	9.673 ppb	387.0

Notes

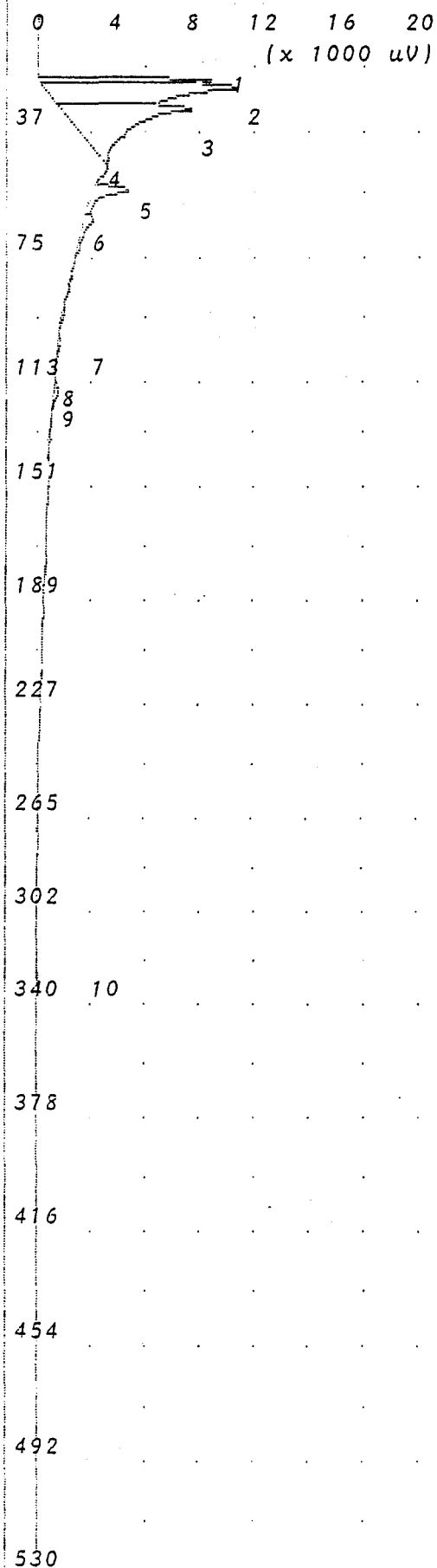
Billy Mitchell Air National
Guard Station

Mark Escobar

Air Blank

04-002PZ 1-3' (13)

04-002PZ 1-3'



Time Printed: Nov 1, 94 10:03

Sample Time: Nov 1, 94 09:51

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

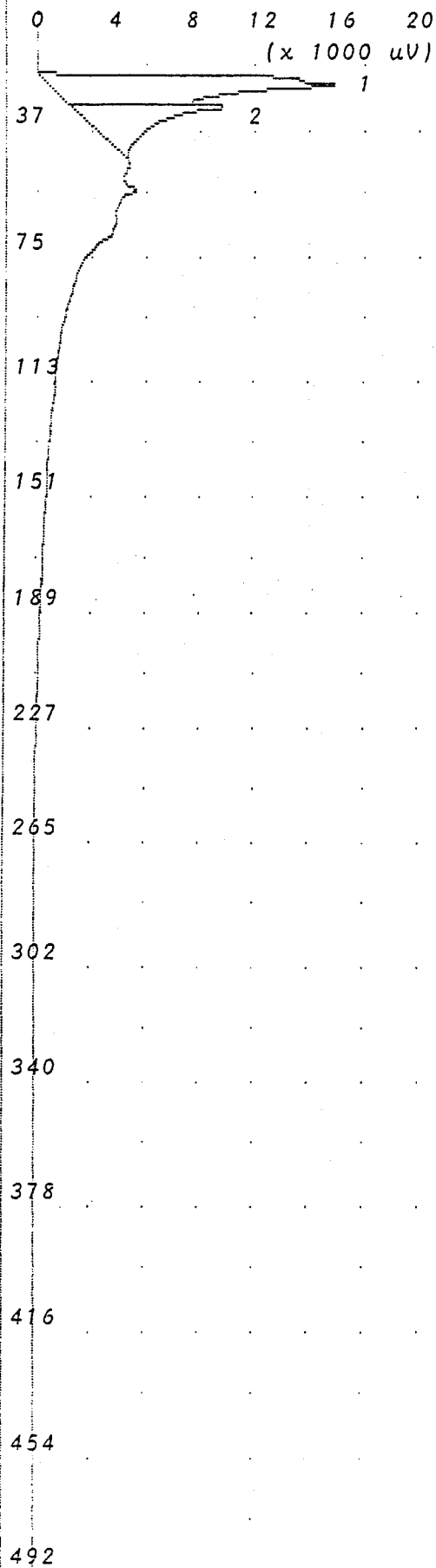
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.13 mVS	19.6
2	Unknown	49.34 mVS	22.2
3	Unknown	47.79 mVS	28.4
4	Unknown	0.112 mVS	43.8
5	Unknown	6.377 mVS	52.8
6	Unknown	2.453 mVS	61.8
7	Unknown	0.107 mVS	98.9
8	Unknown	1.072 mVS	113.8
9	Unknown	0.046 mVS	120.9
10	MP Xylene	13.52 ppb	329.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-002PZ 5'-7'

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 31, 94 15:19

Sample Time: Oct 31, 94 15:10

Method

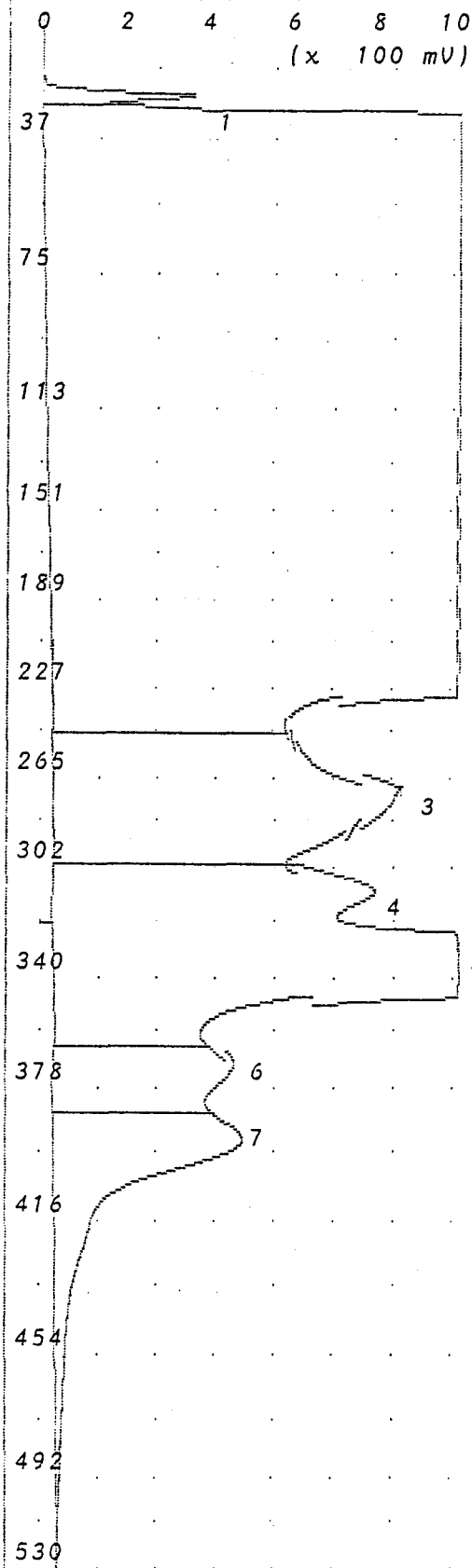
Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	96.07 mVS	21.4
2	Unknown	47.35 mVS	28.2

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 04-003PZ 1'-3'



Time Printed: Oct 31, 94 15:30

Sample Time: Oct 31, 94 15:21

Method

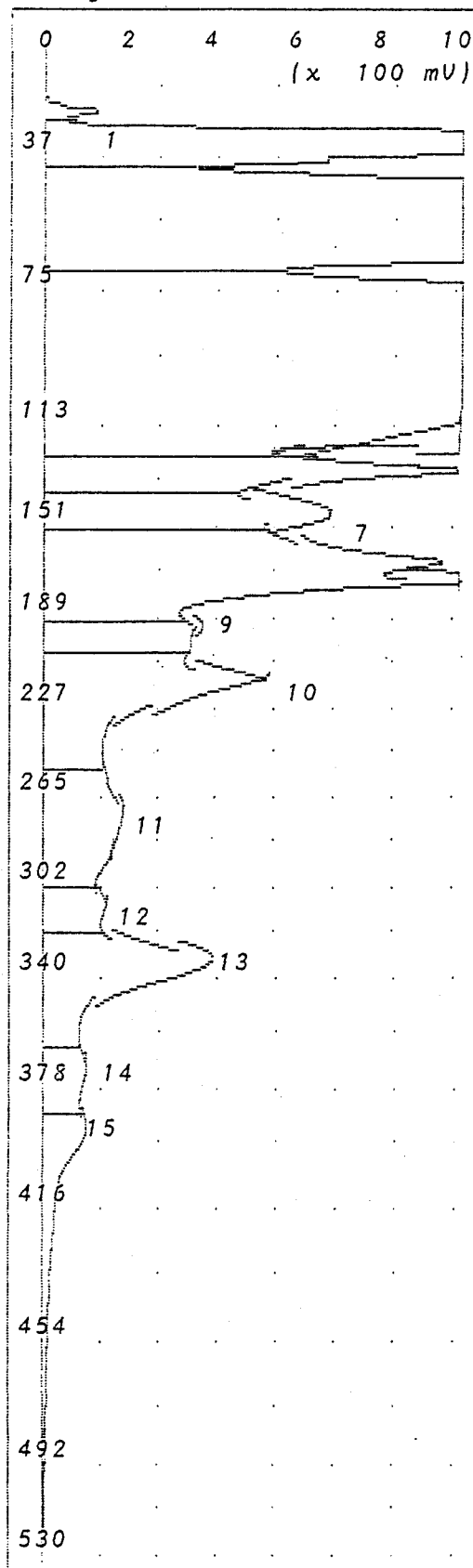
Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.243 VSec	23.4
2	Unknown	8309. VSec	96.1
3	Unknown	41.04 VSec	269.3
4	Ethylbenzene	7.350 ppm	310.4
5	MP Xylene	147.4 ppm	332.0
6	Unknown	9.228 VSec	368.6
7	O Xylene	54.94 ppm	390.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 3'-5' Duplicate



Time Printed: Oct 31, 94 15:41

Sample Time: Oct 31, 94 15:32

Method

Slope Up 3.000 mV/Sec

Slope Down 3.000 mV/Sec

Min Area 1.000 mVSec

Min Height 1.000 mV

Analysis Delay 0.0 sec

Window Percent	10.0	%
----------------	------	---

Det Flow 10 ml/min

B/F Flow 10 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 34 C

Max Gain	1000
Analysis Time	530.0 sec

Peak Report

~~Peak Report~~

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	440.7 mVS	22.8
2	Unknown	32.80 VSec	31.2
3	Unknown	91.58 VSec	53.2
4	Unknown	315.3 VSec	90.2
5	Unknown	1.707 VSec	115.0
6	Unknown	9.325 VSec	126.9
7	Toluene	5.064 ppm	145.4
8	Unknown	25.61 VSec	174.0
9	Unknown	5.735 VSec	192.0
10	Unknown	14.19 VSec	214.4
11	Unknown	8.953 VSec	268.8
12	Ethylbenzene	1.379 ppm	309.3
13	MP Xylene	17.98 ppm	332.2
14	Unknown	2.231 VSec	369.0
15	O Xylene	14.64 ppm	390.0

Notes

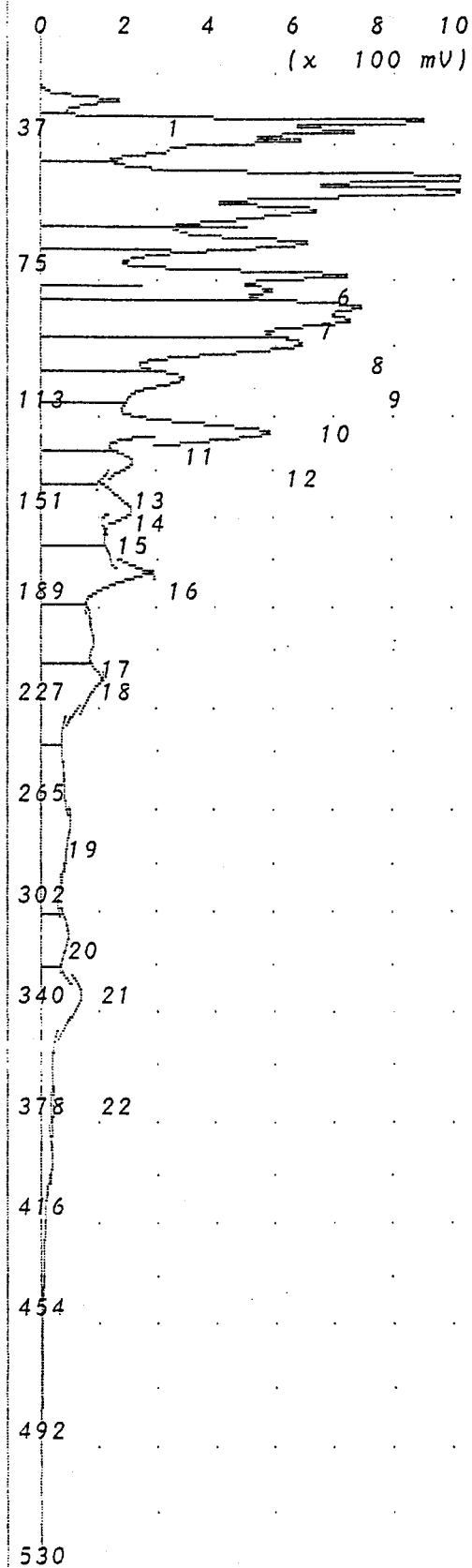
Billy Mitchell Air National

Guard Base

Mark Escobar

04-003PZ 3'-5' Duplicate

5X Dilution



Time Printed: Oct 31, 94 15:53

Sample Time: Oct 31, 94 15:44

Method

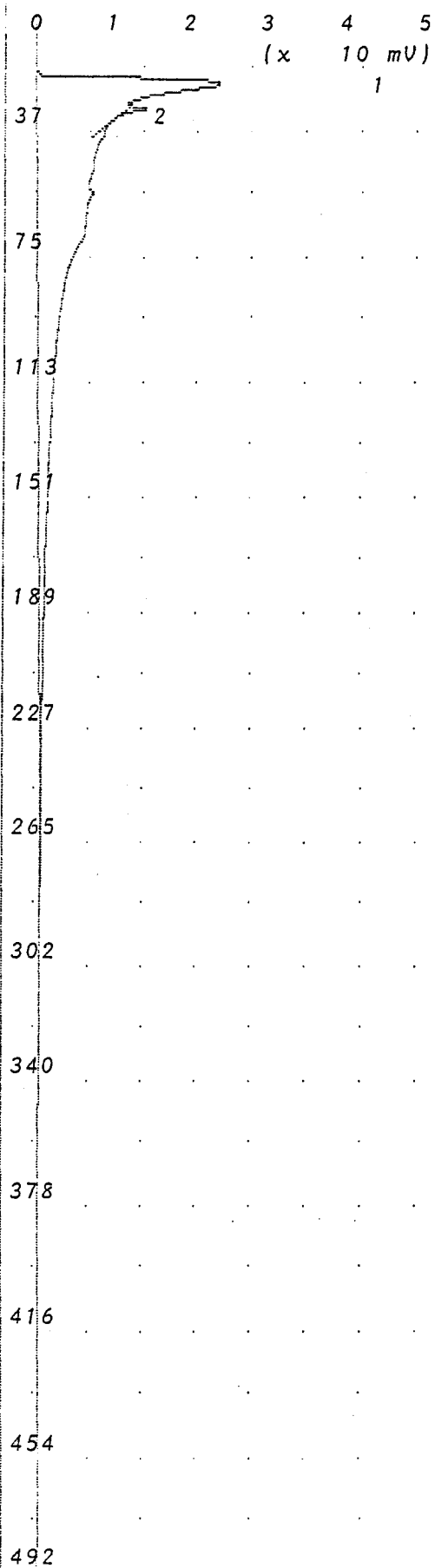
Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	705.1 mVS	22.9
2	Unknown	6.922 VSec	29.0
3	Unknown	2.322 VSec	44.6
4	Unknown	2.336 VSec	45.6
5	Unknown	4.745 VSec	48.6
6	Unknown	3.321 VSec	53.6
7	Unknown	4.196 VSec	62.8
8	Benzene	1.863 ppm	71.8
9	Unknown	7.243 VSec	80.9
10	Unknown	3.882 VSec	90.8
11	Unknown	2.518 VSec	100.5
12	Unknown	5.234 VSec	115.4
13	Unknown	2.296 VSec	126.9
14	Toluene	2.037 ppm	147.0
15	Unknown	15.50 mVS	157.4
16	Unknown	4.737 VSec	175.4
17	Unknown	2.506 VSec	202.2
18	Unknown	3.296 VSec	214.6
19	Unknown	3.537 VSec	268.2
20	Ethylbenzene	731.7 ppb	310.1
21	MP Xylene	7.968 ppm	333.3
22	O Xylene	187.2 ppb	369.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 5'-7'
2X Dilution



Time Printed: Oct 28, 94 15:06

Sample Time: Oct 28, 94 14:58

Method

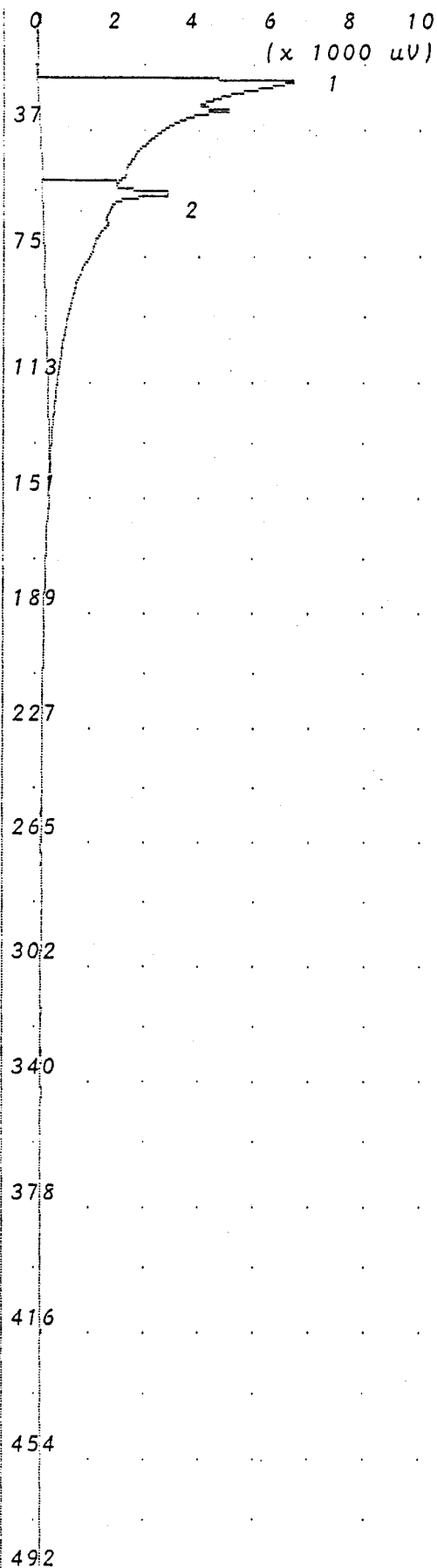
Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	742.4 mVS	19.6
2	Unknown	2.964 mVS	28.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 1'-3'



Time Printed: Oct 28, 94 14:55

Sample Time: Oct 28, 94 14:46

Method

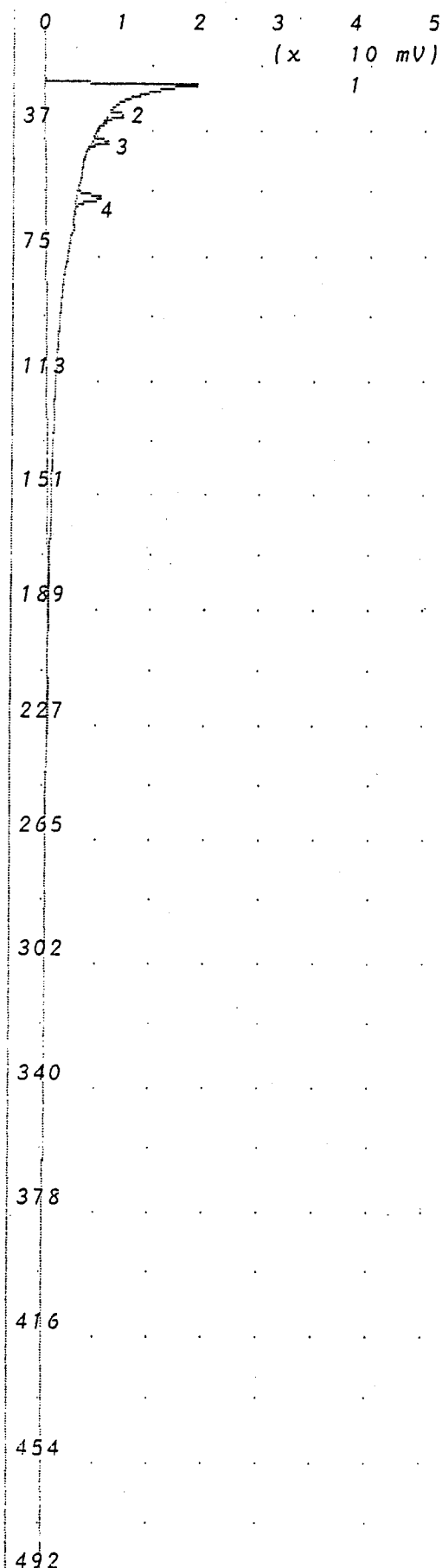
Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	114.1 mVS	20.4
2	Unknown	66.57 mVS	54.4

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 5'-7'



Time Printed: Oct 28, 94 15:56

Sample Time: Oct 28, 94 15:47

Method

Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	462.1 mVS	21.4
2	Unknown	3.363 mVS	30.6
3	Unknown	2.758 mVS	38.7
4	Unknown	7.032 mVS	55.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 8'-10'

0 2 3 4 5 6 7 8 9 10
1x 10 mV

Time Printed: Nov 4, 94 12:40
Sample Time: Nov 4, 94 12:31

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Period 0.0 sec
Injection Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	53.89 mVS	19.8
2	Unknown	27.93 mVS	28.6
3	Unknown	9.079 mVS	34.4
4	Unknown	17.29 mVS	37.0
5	Unknown	11.43 mVS	43.9
6	Unknown	3.154 mVS	54.0
7	Toluene	280.5 ppb	148.0

Billy MITCHELL ANG-BASE
MARK ESCOBAR
CH- 002PZ GW

Substance Abuse National

Aux Flow 0 mL/min
Oven Temp 40 C

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 4, 94 12:58

Sample Time: Nov 4, 94 12:43

Method

Slope Up 2.000 mV/Sec
Slope Down 2.000 mV/Sec
Min Area 2.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

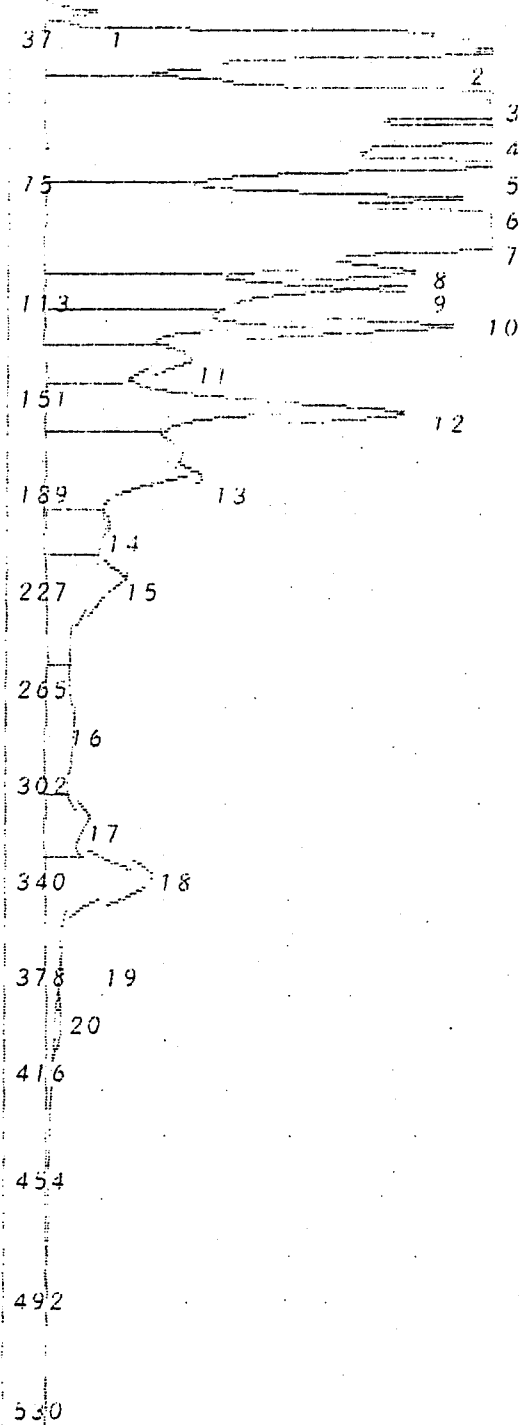
Pr	Compound Name	Area/Conc	R.T.
1	Unknown	330.2 mVS	23.3
2	Unknown	14.39 VSec	30.6
3	Unknown	3.916 VSec	45.4
4	Unknown	6.651 VSec	47.2
5	Unknown	15.10 VSec	55.2
6	Unknown	6.670 VSec	63.0
7	Unknown	18.00 VSec	80.8
8	Unknown	4.006 VSec	91.6
9	Unknown	7.391 VSec	100.8
10	Unknown	1.917 VSec	115.6
11	Unknown	3.525 VSec	127.2
12	Toluene	5.224 ppm	148.0
13	Unknown	7.651 VSec	174.6
14	Unknown	2.059 VSec	193.0
15	Unknown	4.570 VSec	214.8
16	Unknown	2.963 VSec	268.2
17	Ethylbenzene	1.527 ppm	308.8
18	MP Xylene	20.17 ppm	332.2
19	Unknown	59.76 mVS	366.3
20	O Xylene	644.7 ppb	389.6

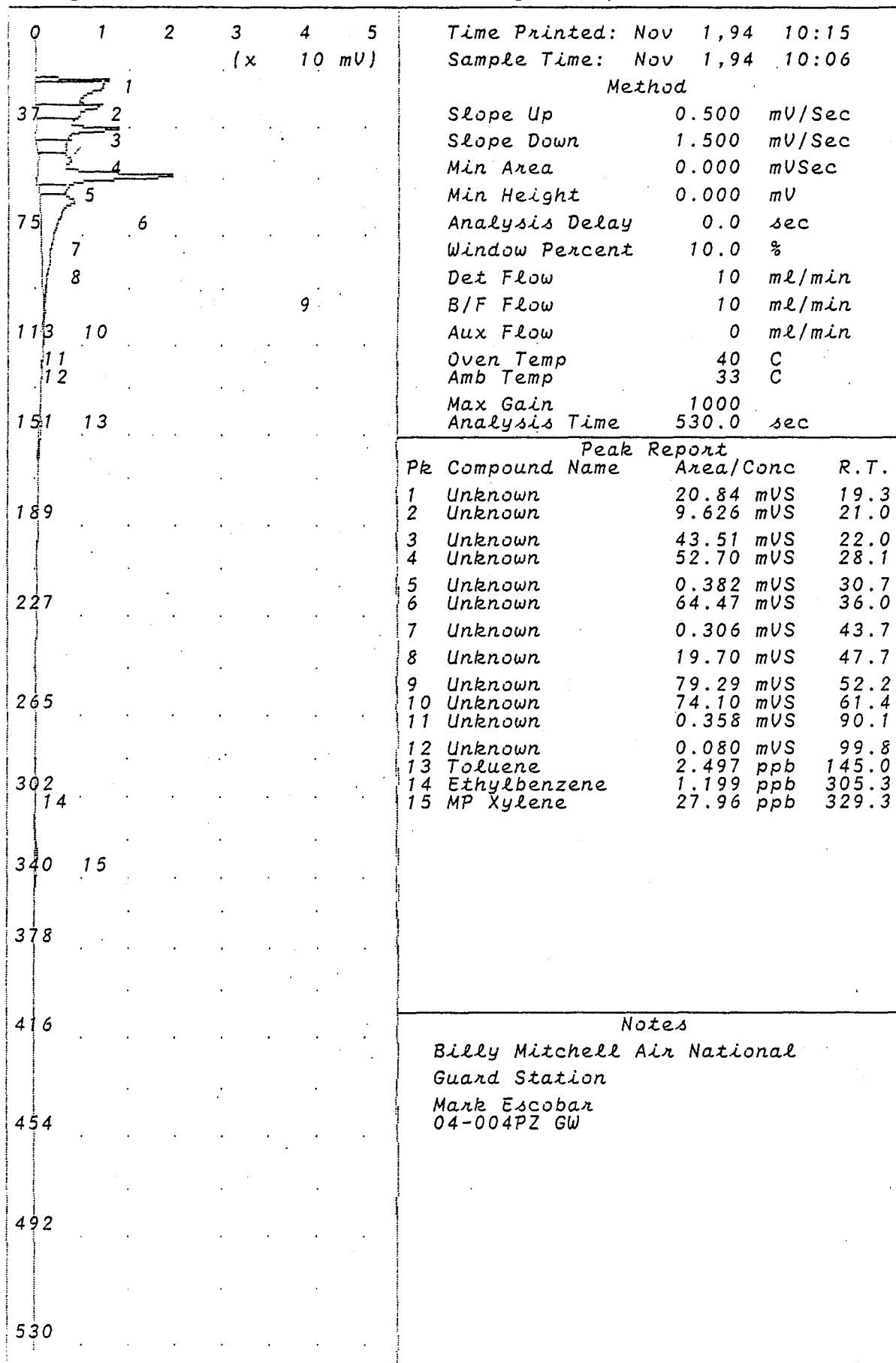
Notes

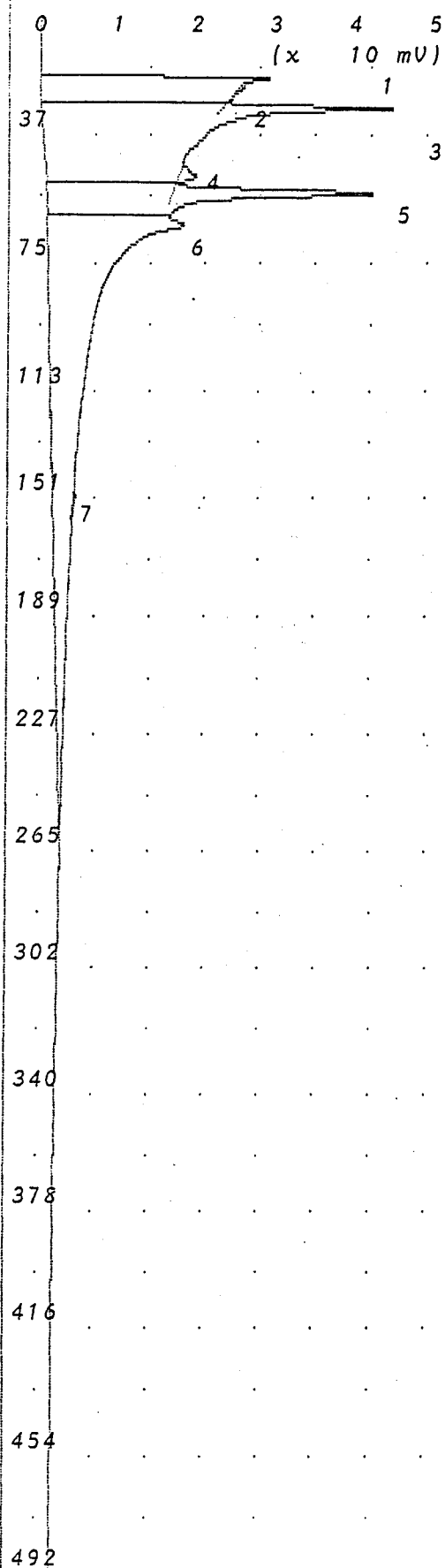
Billy Mitchell Air National
Guard Base

Mark Escobar
04-003PZ GW

5X Dilution







Time Printed: Oct 25, 94 13:49

Sample Time: Oct 25, 94 13:41

Method

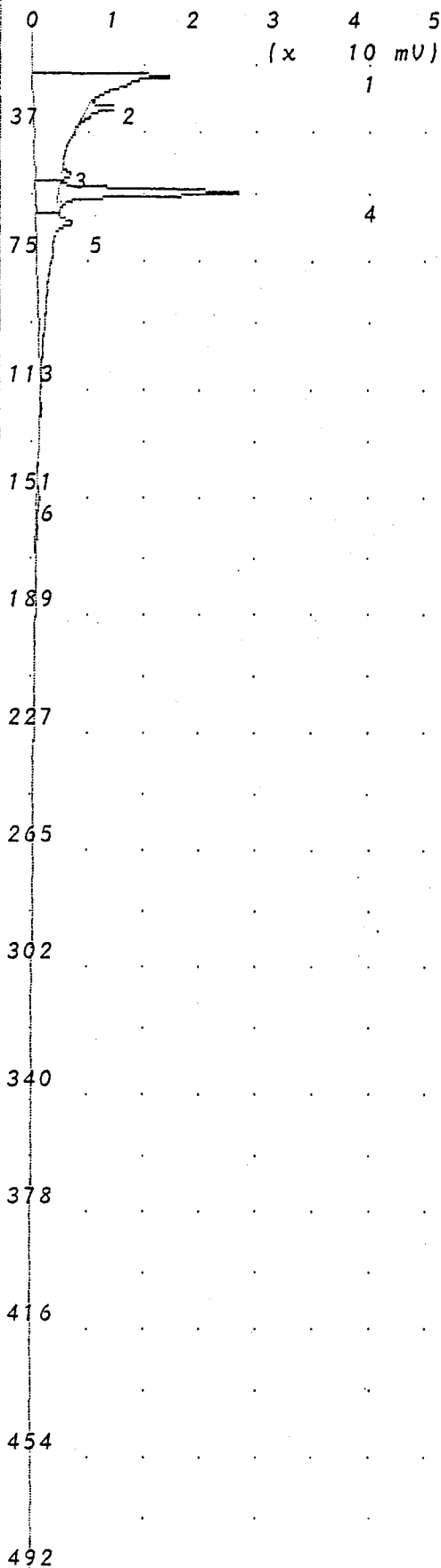
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	207.3 mVS	18.6
2	Unknown	0.563 mVS	21.7
3	Unknown	532.8 mVS	27.8
4	Unknown	6.444 mVS	47.7
5	Unknown	229.2 mVS	53.0
6	Unknown	672.5 mVS	61.9
7	Toluene	1.214 ppb	148.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC DI Water



Time Printed: Oct 25, 94 14:01

Sample Time: Oct 25, 94 13:52

Method

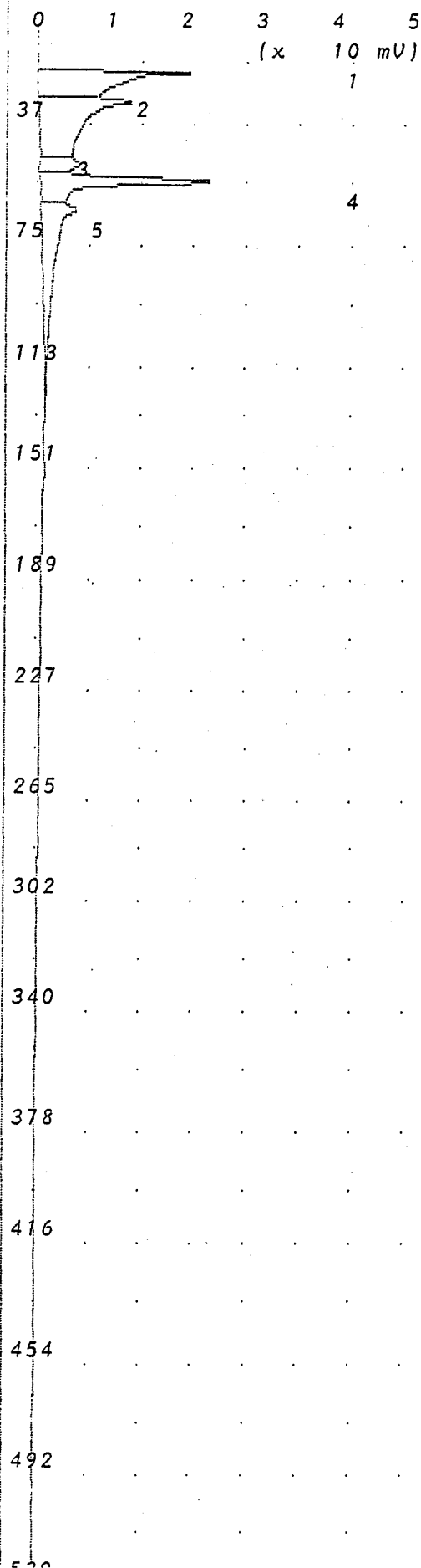
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	215.1 mVS	18.6
2	Unknown	8.071 mVS	28.2
3	Unknown	2.597 mVS	47.7
4	Unknown	86.24 mVS	52.3
5	Unknown	71.76 mVS	62.1
6	Toluene	1.765 ppb	149.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Bailer



Time Printed: Oct 25,94 14:12

Sample Time: Oct 25,94 14:03

Method

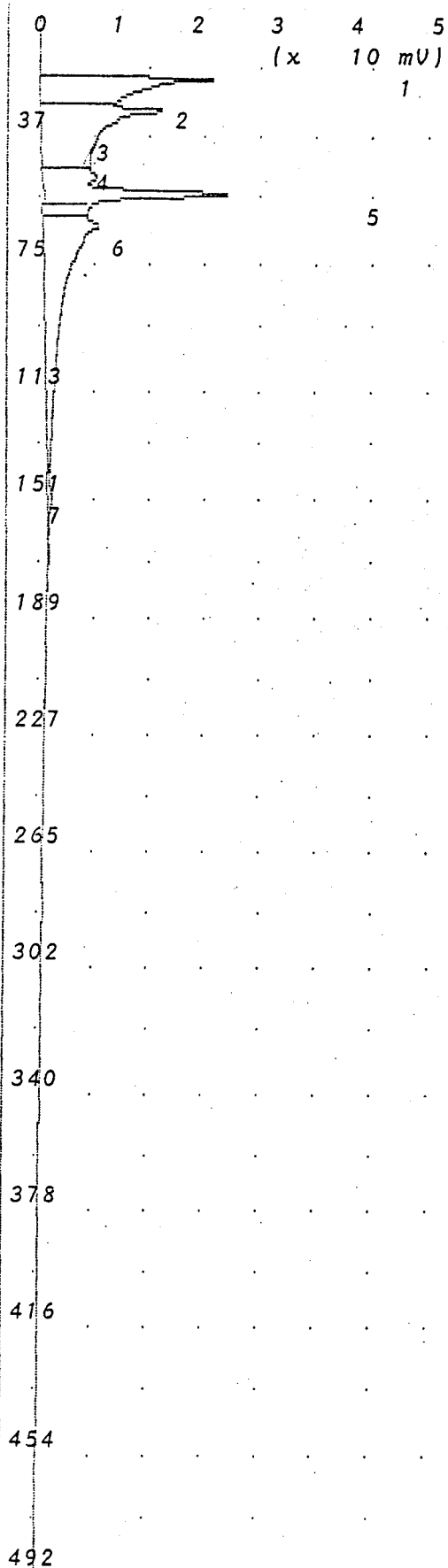
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	102.9 mVS	18.8
2	Unknown	124.1 mVS	28.3
3	Unknown	22.24 mVS	48.0
4	Unknown	84.11 mVS	52.7
5	Unknown	81.91 mVS	62.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Split Spoon



Time Printed: Oct 25, 94 14:52

Sample Time: Oct 25, 94 14:43

Method

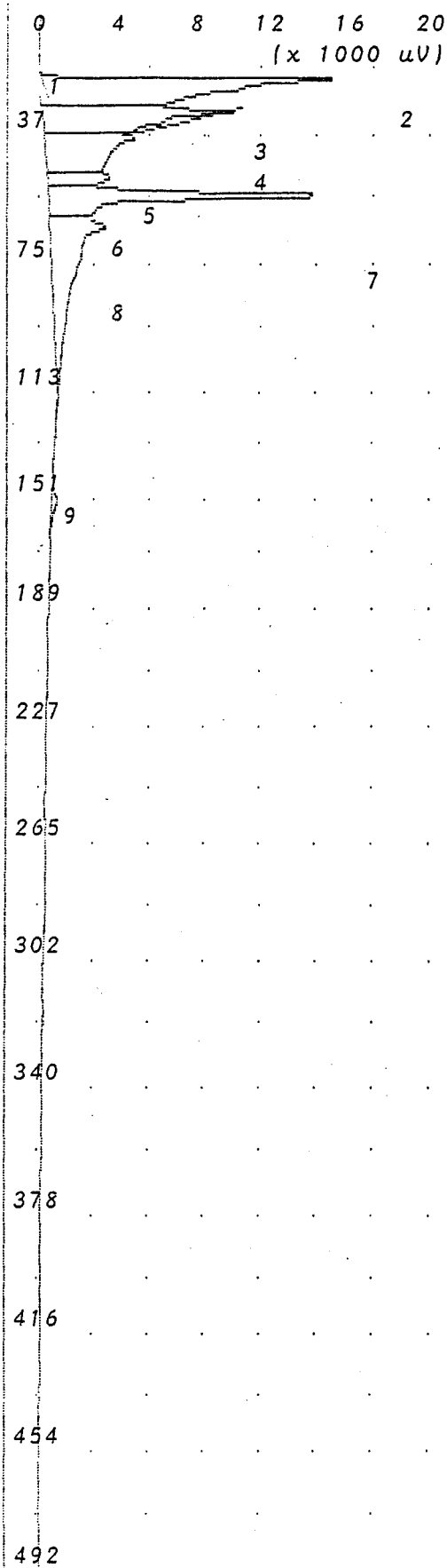
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	119.4 mVS	18.6
2	Unknown	155.9 mVS	28.1
3	Unknown	0.320 mVS	35.9
4	Unknown	33.13 mVS	47.8
5	Unknown	98.79 mVS	52.4
6	Unknown	174.8 mVS	62.0
7	Toluene	7.447 ppb	148.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Tubing



Time Printed: Oct 25,94 15:03

Sample Time: Oct 25,94 14:54

Method

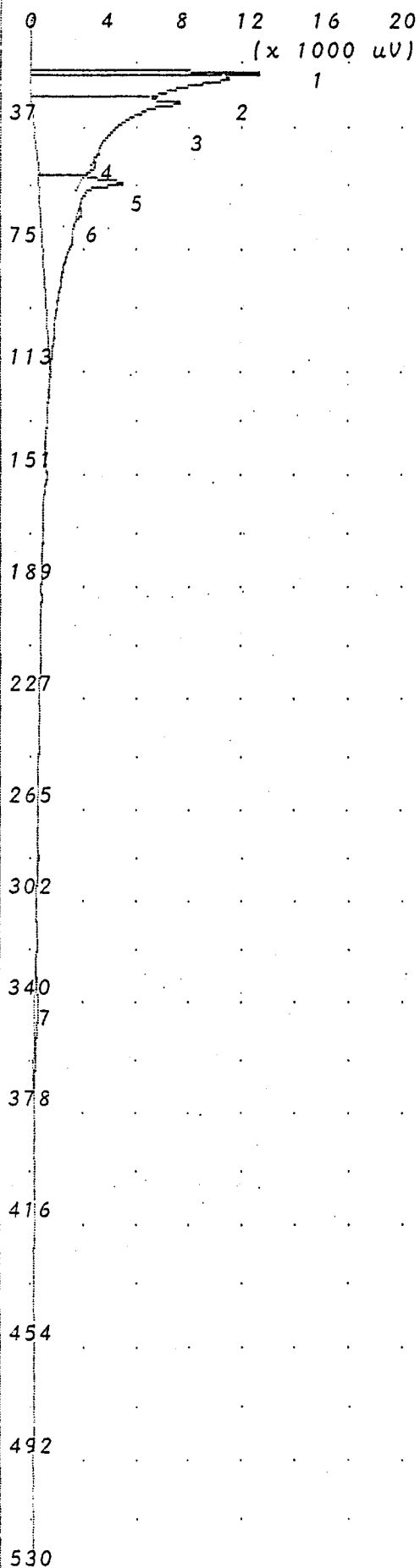
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.111 mVS	17.9
2	Unknown	80.34 mVS	19.3
3	Unknown	0.670 mVS	22.0
4	Unknown	52.00 mVS	28.6
5	Unknown	40.07 mVS	36.4
6	Unknown	11.97 mVS	48.2
7	Unknown	49.57 mVS	53.6
8	Unknown	49.03 mVS	62.4
9	Toluene	1.987 ppb	149.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Steamer



Time Printed: Oct 27,94 12:24

Sample Time: Oct 27,94 12:15

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.52 mVS	18.8
2	Unknown	57.02 mVS	20.7
3	Unknown	103.1 mVS	28.0
4	Unknown	0.494 mVS	47.3
5	Unknown	74.40 mVS	52.9
6	Unknown	0.341 mVS	61.9
7	MP Xylene	1.358 ppb	339.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 QA/QC Split Spoon (EQ)

0 1 2 3 4 5
ix 10 mV

Time Printed: Nov 3, 94 11:09

Sample Time: Nov 3, 94 11:00

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
S/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	11.55 mVS	20.0
2	Unknown	42.46 mVS	22.6
3	Unknown	27.30 mVS	29.0
4	Unknown	57.80 mVS	32.2
5	Unknown	37.16 mVS	49.2
6	Unknown	77.21 mVS	54.2
7	Benzene	71.30 ppb	63.3
8	Toluene	1.678 ppb	149.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
EB-Bailer

37
75
113
151
189
227
265
302
340
378
416
454
492
530

0 1 2 3 4 5
(x 10 mV)

Time Printed: Nov 3, 94 10:56

Sample Time: Nov 3, 94 10:47

Method

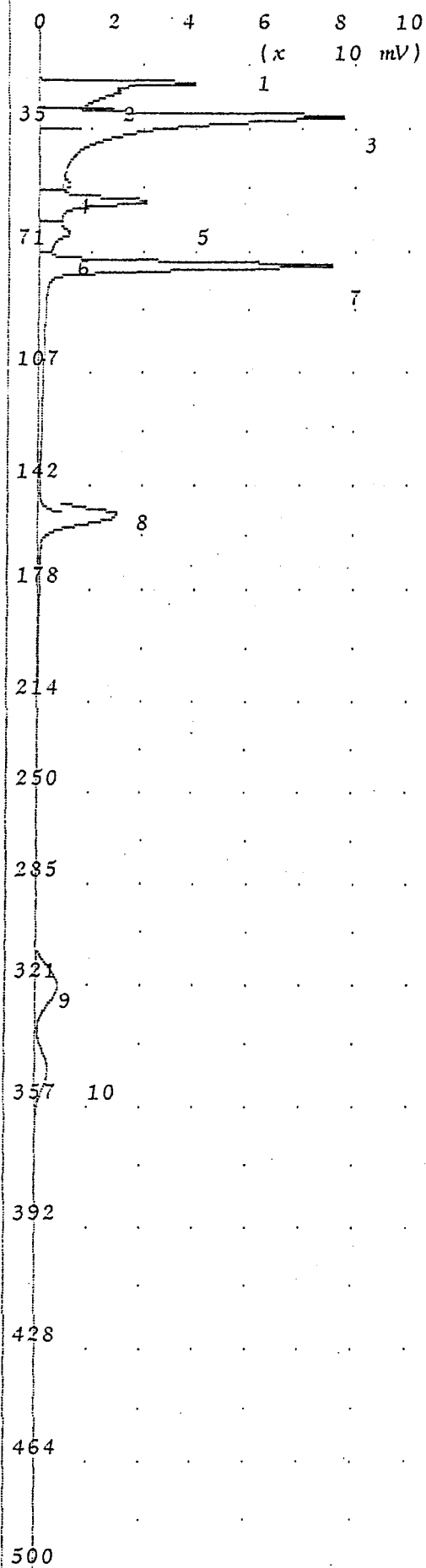
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

pk	Compound Name	Area/Conc	R.T.
1	Unknown	38.82 mVS	21.4
2	Unknown	85.89 mVS	22.7
3	Unknown	251.3 mVS	28.0
4	Unknown	0.203 mVS	44.0
5	Unknown	3.232 mVS	49.0
6	Unknown	101.3 mVS	53.6
7	Benzene	1.004 ppm	63.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
EB-SPLIT SPOON



Time Printed: Oct 20,94 09:42

Sample Time: Oct 20,94 09:33

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

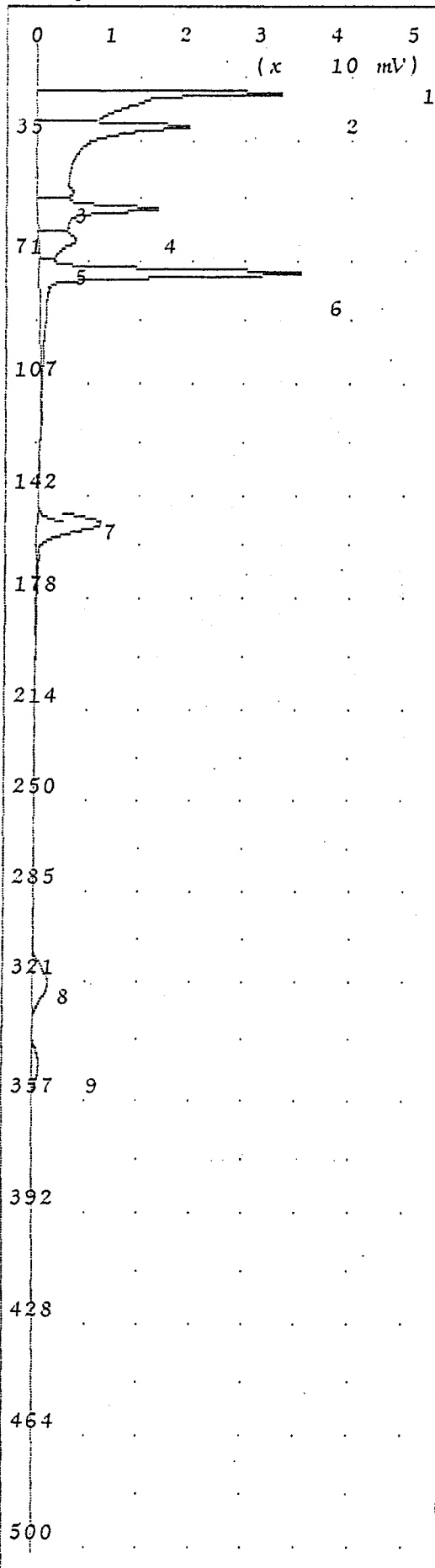
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	83.59 mVS	20.0
2	Unknown	112.4 mVS	22.2
3	Unknown	517.5 mVS	29.8
4	Unknown	3.851 mVS	49.5
5	Unknown	123.2 mVS	53.4
6	Unknown	50.62 mVS	63.5
7	Unknown	344.4 mVS	73.3
8	Unknown	151.3 mVS	151.0
9	Unknown	89.43 mVS	319.4
10	Unknown	65.81 mVS	344.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standards

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 09:54

Sample Time: Oct 20,94 09:45

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 500.0 sec

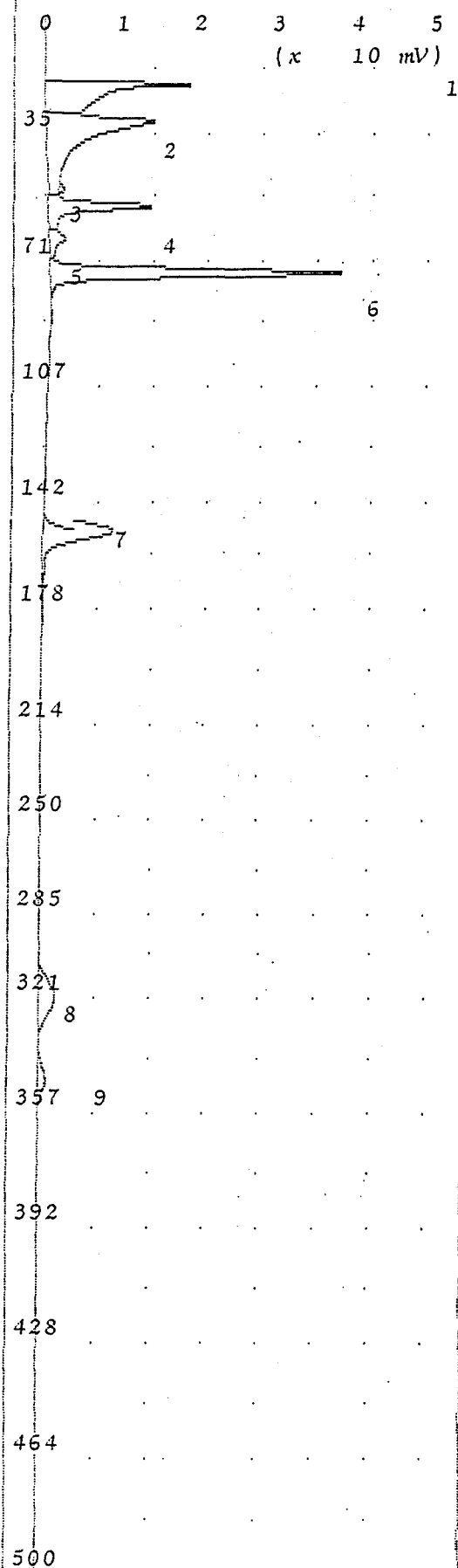
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	143.1 mVS	18.9
2	Unknown	168.7 mVS	28.8
3	Unknown	1.609 mVS	48.8
4	Unknown	69.09 mVS	53.8
5	Unknown	31.36 mVS	62.8
6	Unknown	128.8 mVS	72.5
7	Unknown	54.35 mVS	151.6
8	Unknown	36.15 mVS	317.3
9	Unknown	27.19 mVS	345.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standard 100 ppb

Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 20, 94 10:06
Sample Time: Oct 20, 94 09:58

Method

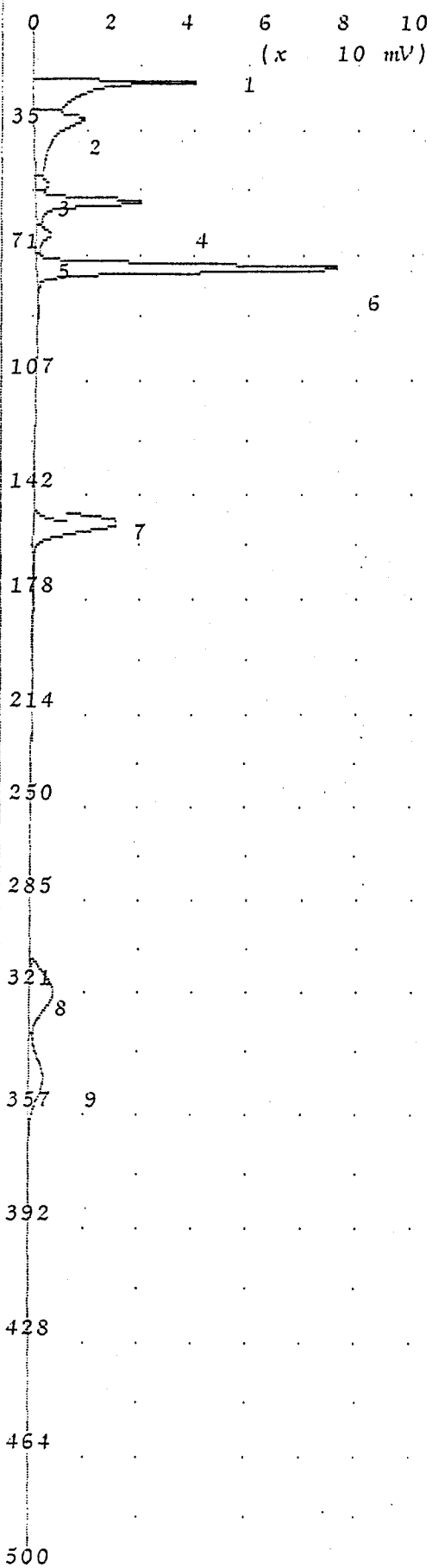
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	80.39 mVS	19.1
2	Unknown	106.7 mVS	29.8
3	Unknown	1.365 mVS	48.8
4	Unknown	41.45 mVS	53.6
5	Unknown	10.38 mVS	62.7
6	Unknown	110.0 mVS	72.5
7	Unknown	55.92 mVS	151.4
8	Unknown	35.71 mVS	316.2
9	Unknown	27.22 mVS	343.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEx Standard 100 ppb



Time Printed: Oct 20, 94 10:18

Sample Time: Oct 20, 94 10:09

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 15 ml/min
 B/F Flow 15 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 500.0 sec

Peak Report

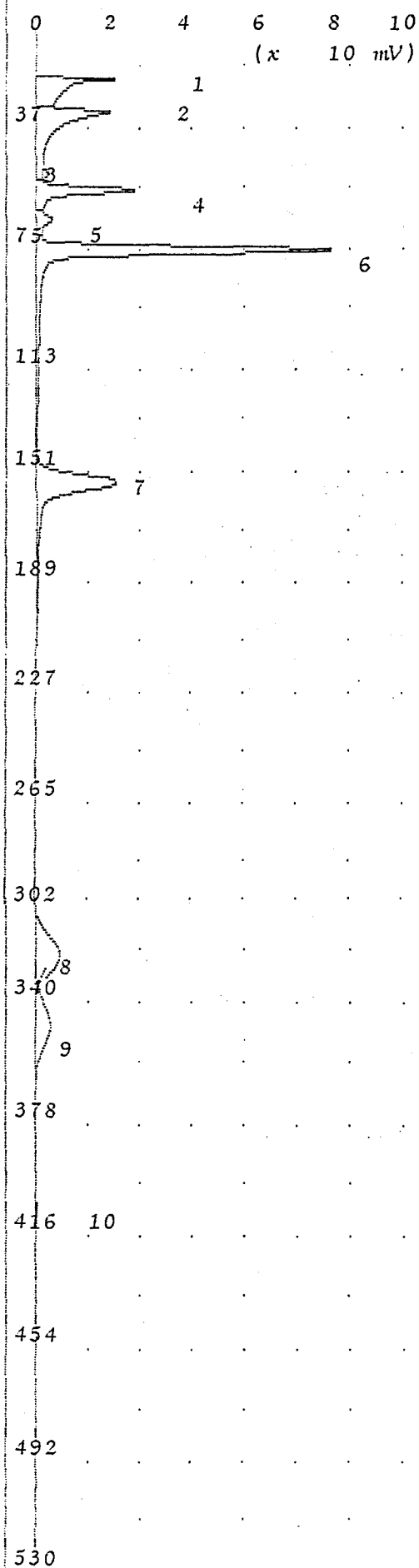
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	149.2 mVS	19.0
2	Unknown	106.3 mVS	30.0
3	Unknown	12.44 mVS	49.0
4	Unknown	82.08 mVS	53.1
5	Unknown	17.01 mVS	63.0
6	Unknown	239.1 mVS	72.6
7	Unknown	135.2 mVS	150.2
8	Unknown	85.62 mVS	318.9
9	Unknown	64.63 mVS	344.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 BTEX Standard 100 ppb

Analysis #6

10S+ GC Function Analysis Report



Time Printed: Oct 20, 94 10:29

Sample Time: Oct 20, 94 10:20

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	85.93 mVS	19.6
2	Unknown	134.6 mVS	30.0
3	Unknown	3.272 mVS	49.4
4	Unknown	84.42 mVS	53.8
5	Unknown	22.49 mVS	63.6
6	Unknown	299.9 mVS	73.4
7	Unknown	161.2 mVS	151.0
8	Unknown	98.72 mVS	320.0
9	Unknown	84.81 mVS	345.6
10	Unknown	29.35 mVS	407.3

Notes

Mark Escobar

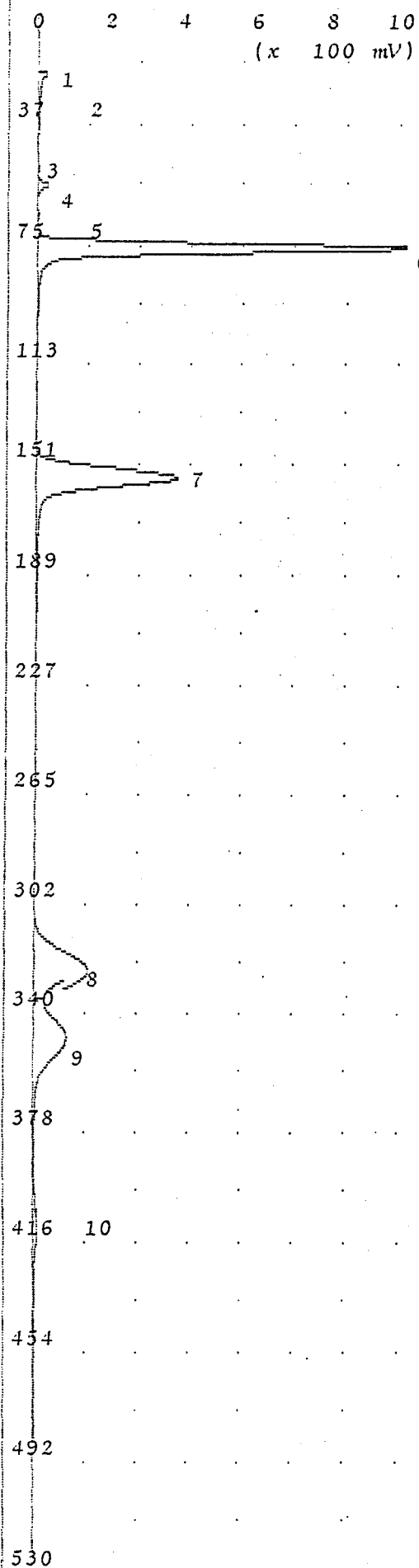
Billy Mitchell Air National

Guard Base

BTEX Standard 100 ppb ^(MS) 1 ppmoriginal
correct

Analysis #7

10S+ GC Function Analysis Report



Time Printed: Oct 20,94 10:47

Sample Time: Oct 20,94 10:38

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 15 ml/min
B/F Flow 15 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

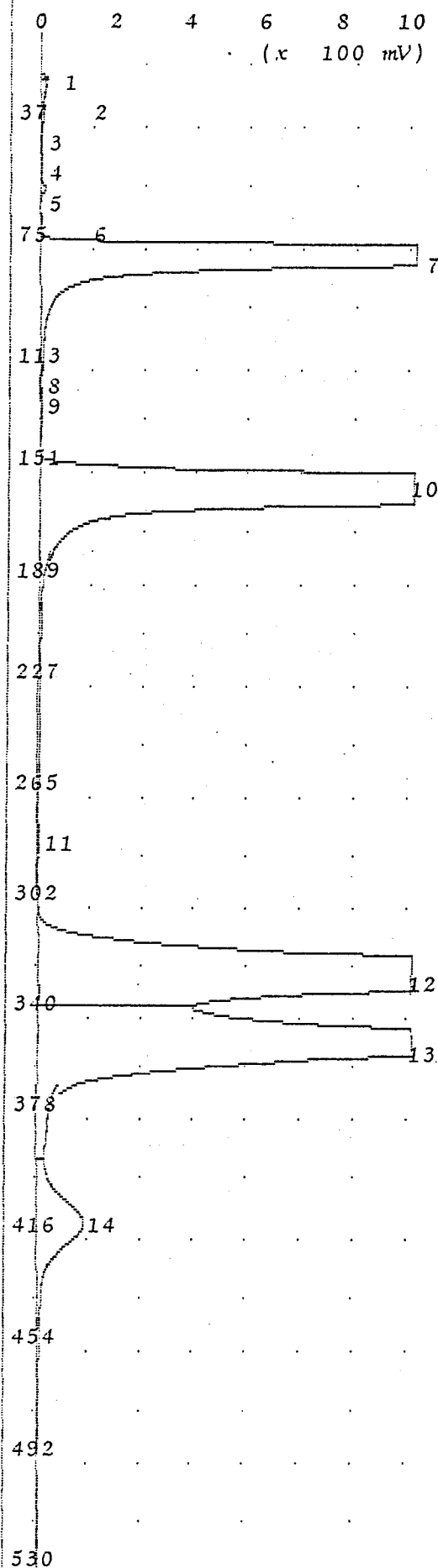
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	195.5 mVS	19.2
2	Unknown	6.160 mVS	29.2
3	Unknown	3.547 mVS	49.1
4	Unknown	85.07 mVS	53.6
5	Unknown	19.73 mVS	63.4
6	Benzene	1.423 ppm	73.8
7	Toluene	1.783 ppm	153.2
8	Ethylbenzene	2.134 ppm	321.3
9	MP Xylene	1.858 ppm	346.3
10	O Xylene	1.199 ppm	408.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standard 100 ppb

Analysis #8 10S+ GC Function Analysis Report



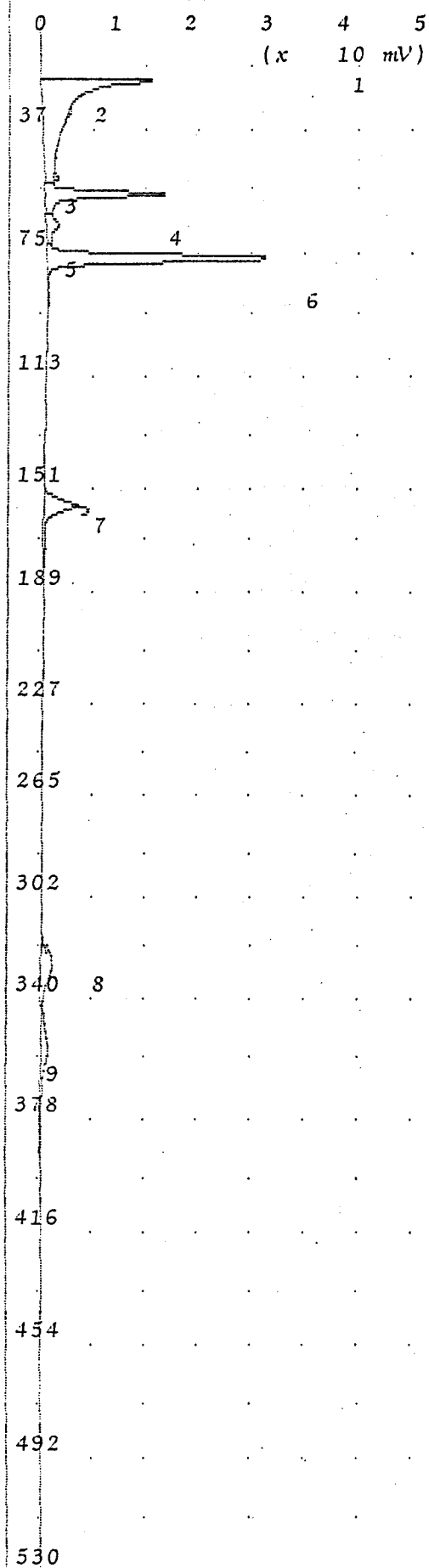
Time Printed: Oct 20,94 11:03
 Sample Time: Oct 20,94 10:54
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 15 ml/min
 B/F Flow 15 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 35 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	40.20 mVS	19.4
2	Unknown	88.33 mVS	22.0
3	Unknown	100.7 mVS	29.4
4	Unknown	10.03 mVS	49.4
5	Unknown	42.82 mVS	54.6
6	Unknown	6.125 mVS	63.7
7	Benzene	4.900 ppm	75.0
8	Unknown	4.415 mVS	110.5
9	Unknown	2.217 mVS	118.5
10	Toluene	7.522 ppm	153.8
11	Unknown	8.460 mVS	276.8
12	Ethylbenzene	13.86 ppm	322.4
13	MP Xylene	17.60 ppm	347.3
14	O Xylene	8.368 ppm	408.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 BTEX Standard 10 ppm



Time Printed: Oct 20, 94 14:28

Sample Time: Oct 20, 94 14:19

Method

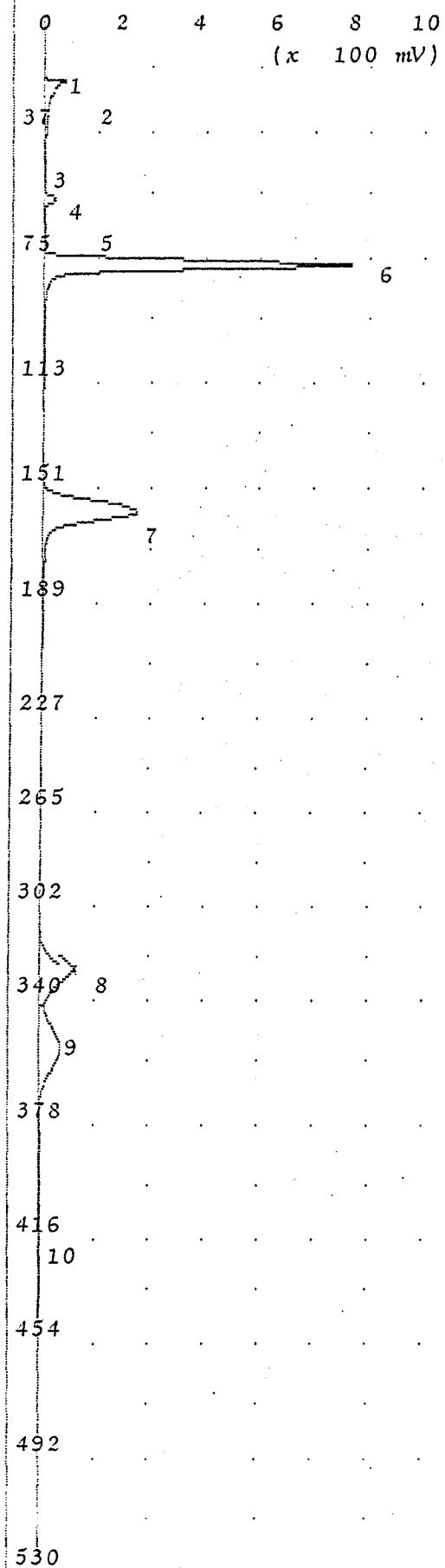
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 15 ml/min
 B/F Flow 15 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	118.7 mVS	20.2
2	Unknown	0.982 mVS	29.7
3	Unknown	1.545 mVS	50.5
4	Unknown	42.38 mVS	55.5
5	Unknown	9.177 mVS	64.8
6	Benzene	29.21 ppb	74.8
7	Toluene	22.79 ppb	155.6
8	Ethylbenzene	19.44 ppb	325.6
9	MP Xylene	8.859 ppb	353.3

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 BTEX Standard 100 ppb



Time Printed: Oct 20,94 14:43

Sample Time: Oct 20,94 14:34

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 15 ml/min
 B/F Flow 15 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

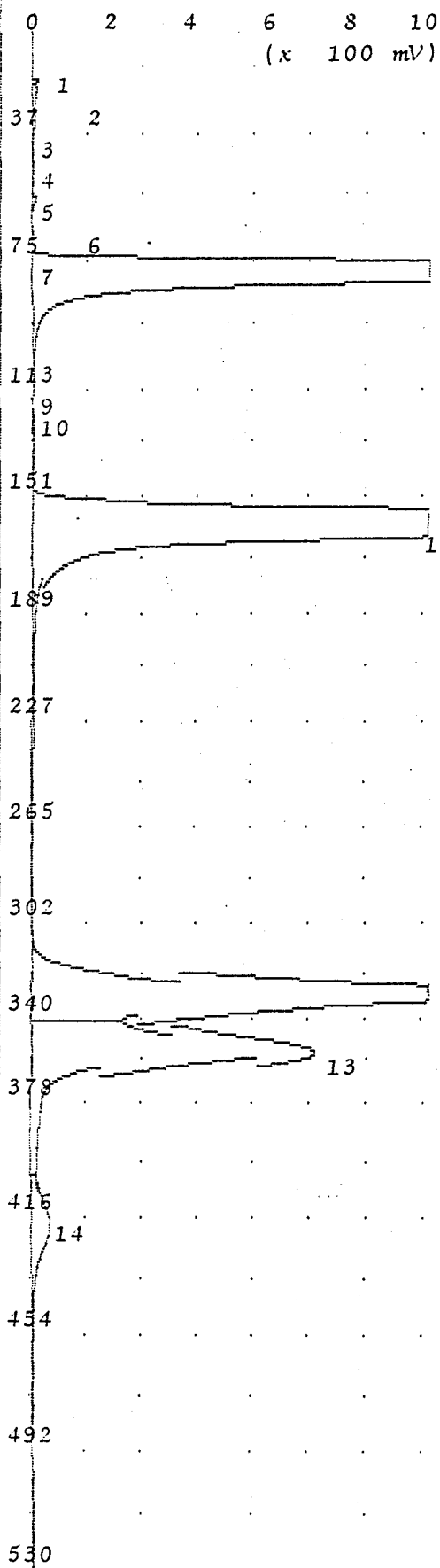
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	386.2 mVS	19.6
2	Unknown	3.860 mVS	30.0
3	Unknown	2.582 mVS	50.2
4	Unknown	97.89 mVS	54.7
5	Unknown	30.38 mVS	64.8
6	Benzene	696.8 ppb	75.2
7	Toluene	709.8 ppb	156.0
8	Ethylbenzene	657.8 ppb	327.2
9	MP Xylene	671.7 ppb	352.6
10	O Xylene	481.0 ppb	415.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 BTEX Standard 1 ppm

Analysis #11 10S+ GC Function Analysis Report



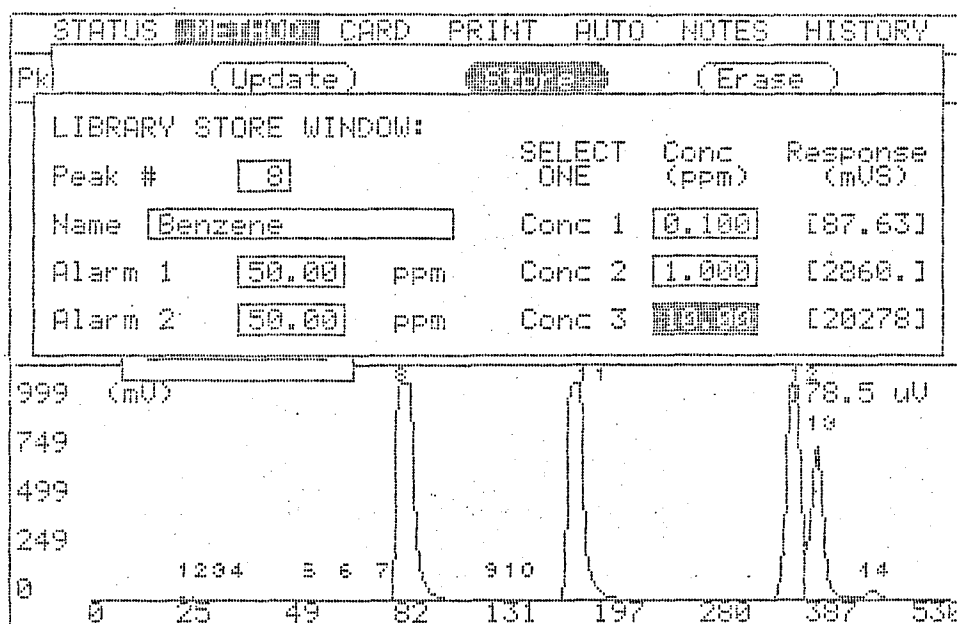
Time Printed: Oct 20,94 14:55
 Sample Time: Oct 20,94 14:46
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 15 ml/min
 B/F Flow 15 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	28.67 mVS	20.0
2	Unknown	76.13 mVS	22.4
3	Unknown	31.51 mVS	29.8
4	Unknown	63.15 mVS	32.8
5	Unknown	9.275 mVS	50.1
6	Unknown	35.98 mVS	55.4
7	Unknown	6.285 mVS	64.8
8	Benzene	9.424 ppm	76.2
9	Unknown	3.109 mVS	111.8
10	Unknown	1.219 mVS	120.9
11	Toluene	9.316 ppm	157.0
12	Ethylbenzene	6.544 ppm	329.3
13	MP Xylene	9.224 ppm	354.6
14	O Xylene	4.258 ppm	416.4

Notes

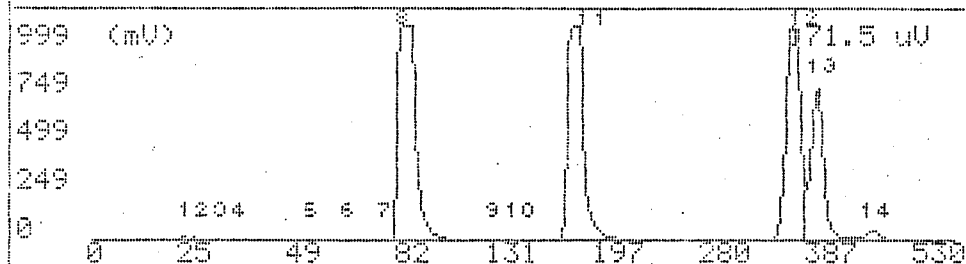
Mark Escobar
 Billy Mitchell Air National
 Guard Base
 BTEX Standard 10 ppm



Fault: Calibrant 105+ GC Function Oct 20, 94 15:00
 -- Analysis No 11 -- Run at -- Oct 20, 94 14:46 --

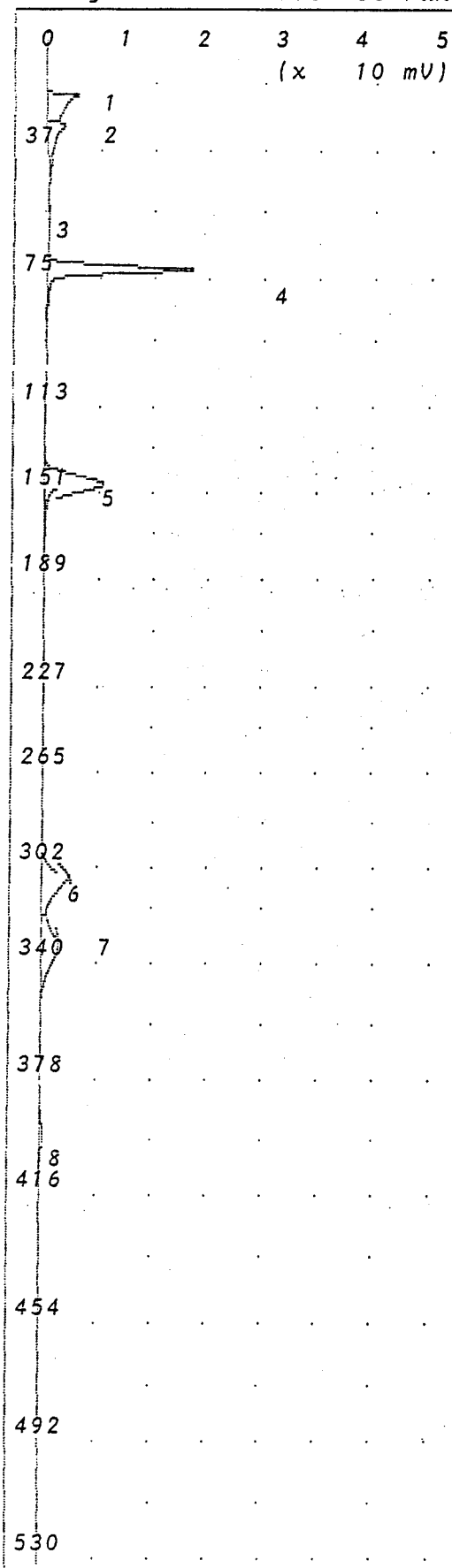
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	28.67 mUS	-No-	20.0 sec
2	Unknown	76.13 mUS	-No-	22.4 sec
3	Unknown	31.51 mUS	-No-	29.0 sec
4	Unknown	63.15 mUS	-No-	32.0 sec
5	Unknown	9.275 mUS	-No-	38.1 sec
6	Unknown	35.98 mUS	-No-	55.4 sec
7	Unknown	6.265 mUS	-No-	64.0 sec
8	Benzene	10.00 ppm	-No-	76.2 sec
9	Unknown	3.109 mUS	-No-	111.3 sec

- Detected 14. peaks. Use + + to scroll [535 sec]



Analysis #1

10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 08:47

Sample Time: Oct 21, 94 08:38

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

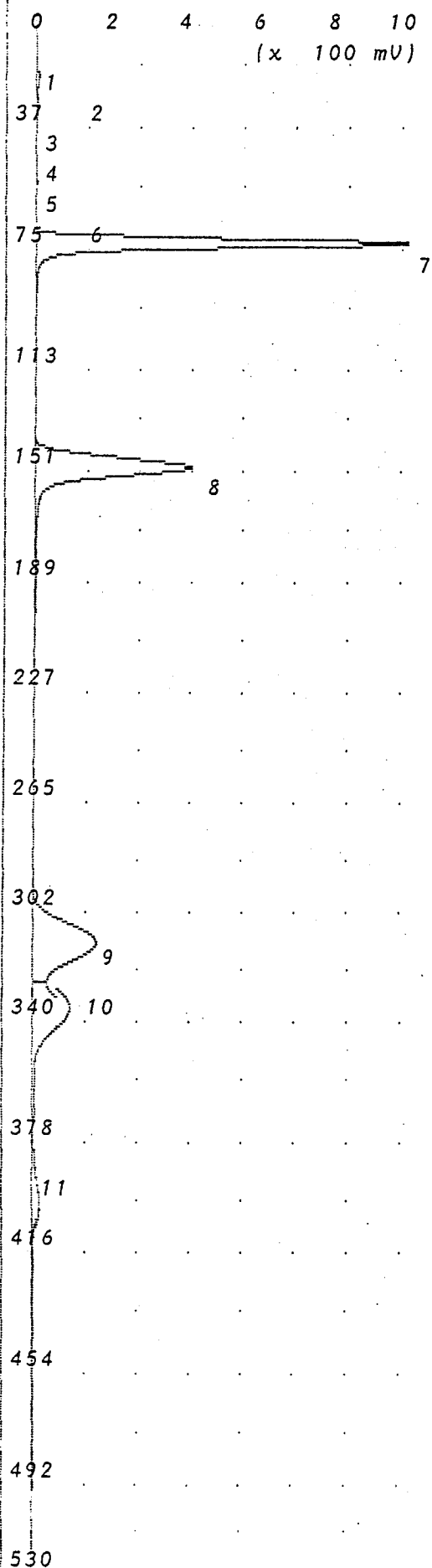
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	20.88 mVS	18.8
2	Unknown	14.47 mVS	28.1
3	Unknown	0.527 mVS	51.9
4	Benzene	55.42 ppb	70.5
5	Toluene	106.0 ppb	146.4
6	Unknown	55.22 mVS	307.7
7	Ethylbenzene	119.6 ppb	328.0
8	O Xylene	43.63 ppb	392.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 100 ppb BTEX Standard

Analysis #2

10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 09:03

Sample Time: Oct 21, 94 08:54

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

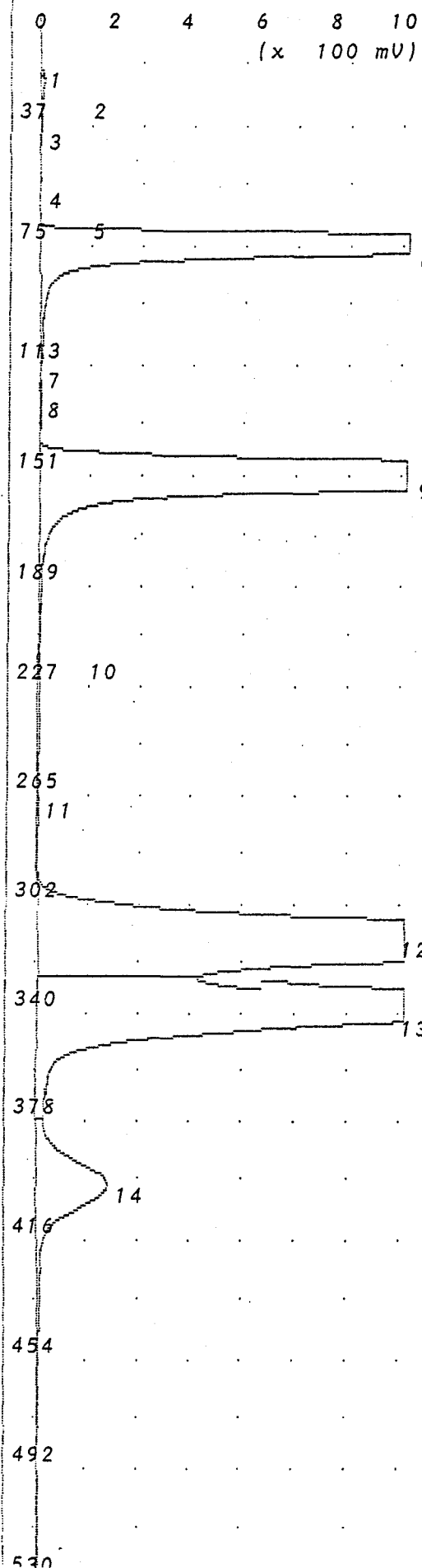
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	115.4 mVS	18.6
2	Unknown	3.035 mVS	27.9
3	Unknown	0.226 mVS	37.8
4	Unknown	0.526 mVS	46.8
5	Unknown	20.16 mVS	50.7
6	Unknown	0.532 mVS	61.3
7	Benzene	1.651 ppm	71.2
8	Toluene	1.540 ppm	147.8
9	Ethylbenzene	1.553 ppm	310.1
10	MP Xylene	3.316 ppm	333.8
11	O Xylene	4.230 ppm	390.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard

Analysis #3

10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 09:18

Sample Time: Oct 21, 94 09:09

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	20.70 mVS	18.8
2	Unknown	69.52 mVS	21.1
3	Unknown	75.66 mVS	28.2
4	Unknown	6.706 mVS	52.4
5	Unknown	0.418 mVS	61.2
6	Benzene	10.46 ppm	72.5
7	Unknown	5.417 mVS	108.5
8	Unknown	1.599 mVS	114.2
9	Toluene	10.14 ppm	148.6
10	Unknown	3.581 mVS	212.4
11	Unknown	9.451 mVS	268.0
12	Ethylbenzene	15.35 ppm	312.0
13	MP Xylene	43.40 ppm	335.2
14	O Xylene	52.49 PPM2	396.6

PPM1 = Alarm 1 PPM2 = Alarm2

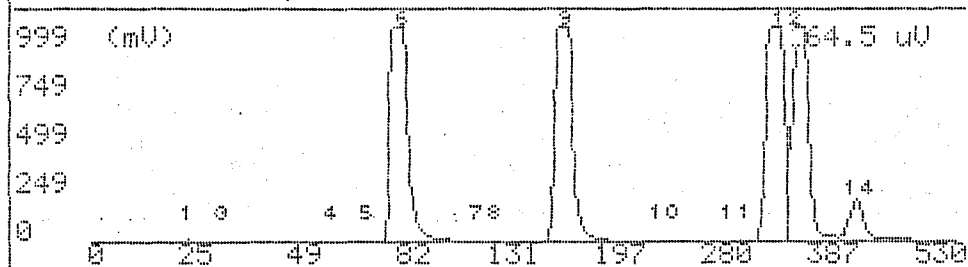
Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 10 ppm BTEX Standard

Fault: Calibrant 10S+ GC Function Oct 21, 94 09:23
 -- Analysis No 3 -- Run at - Oct 21, 94 09:09 -

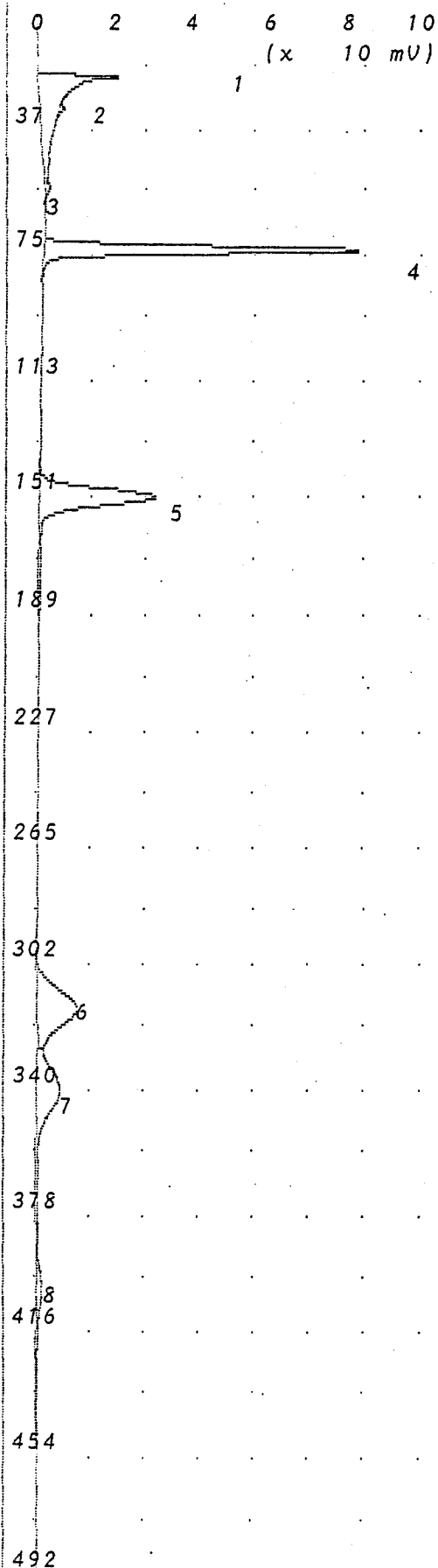
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	20.74 mUS	-No-	18.6 sec
2	Unknown	70.00 mUS	-No-	21.1 sec
3	Unknown	81.13 mUS	-No-	28.2 sec
4	Unknown	10.71 mUS	-No-	52.4 sec
5	Unknown	1.747 mUS	-No-	61.2 sec
6	Benzene	10.00 ppm	-No-	72.5 sec
7	Unknown	5.417 mUS	-No-	108.0 sec
8	Unknown	1.599 mUS	-No-	114.2 sec
9	Toluene	10.00 ppm	-No-	148.6 sec

 - Detected 14 peaks. Use + + to scroll [535 sec]



Analysis #9

10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 11:33

Sample Time: Oct 21, 94 11:24

Method

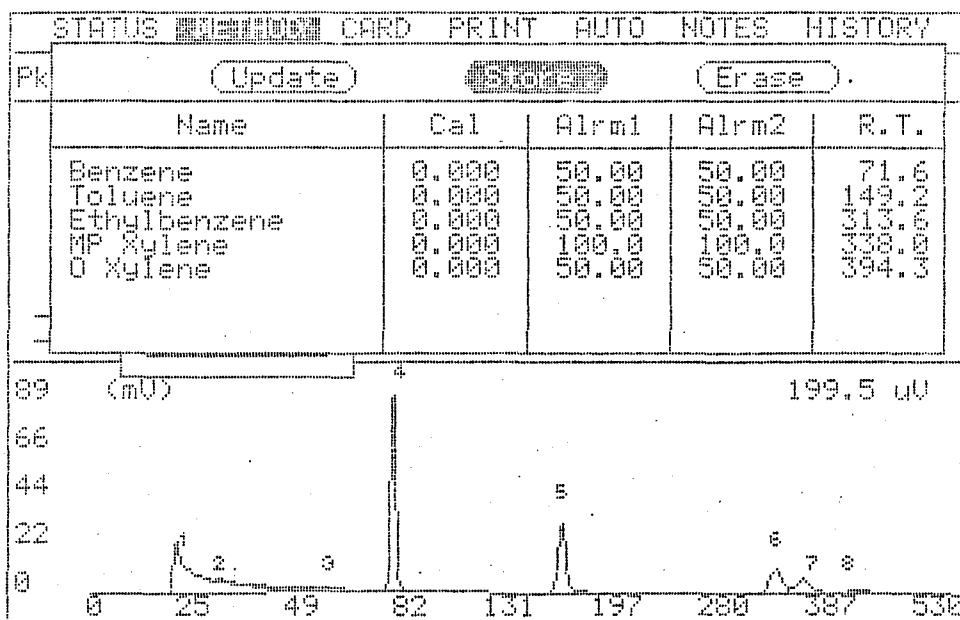
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

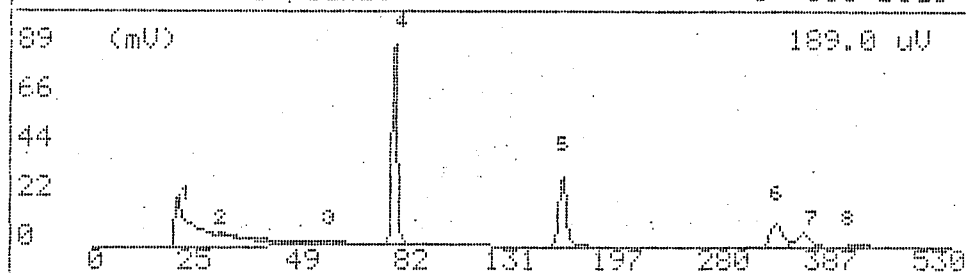
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.4 mVS	18.8
2	Unknown	1.753 mVS	28.4
3	Unknown	2.186 mVS	53.0
4	Benzene	140.7 ppb	71.6
5	Toluene	139.4 ppb	149.2
6	Ethylbenzene	132.7 ppb	313.6
7	MP Xylene	265.4 ppb	338.0
8	O Xylene	131.7 ppb	394.3

Notes

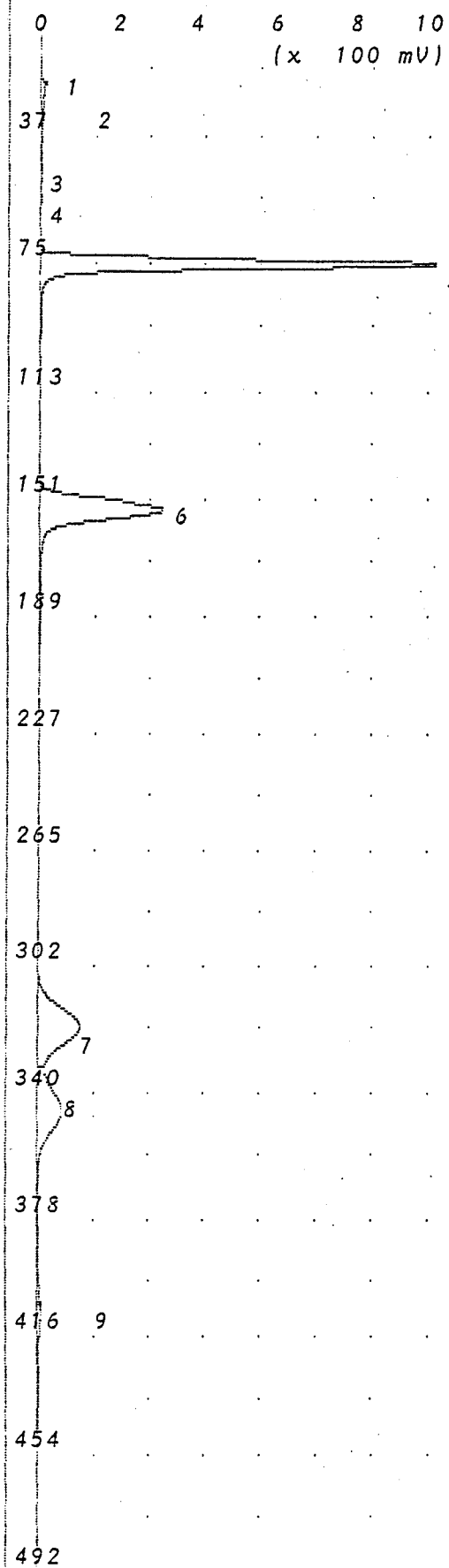
Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX continuig calib.



Fault: Calibrant 10S+ GC Function Oct 21, 94 11:37					
-- Analysis No 9 -- Run at - Oct 21, 94 11:24 -					
Pk No	Name	Conc/Area	Alarm	Ret. Time	
1	Unknown	189.4 mUS	-No-	18.0	sec
2	Unknown	1.753 mUS	-No-	28.4	sec
3	Unknown	2.186 mUS	-No-	53.0	sec
4	Benzene	100.0 ppb	-No-	71.6	sec
5	Toluene	100.0 ppb	-No-	149.2	sec
6	Ethylbenzene	100.0 ppb	-No-	313.6	sec
7	MP Xylene	200.0 ppb	-No-	338.0	sec
8	O Xylene	100.0 ppb	-No-	394.3	sec
-- Detected 8 peaks. [535 sec]					



Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 15:05

Sample Time: Oct 21, 94 14:56

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 30 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

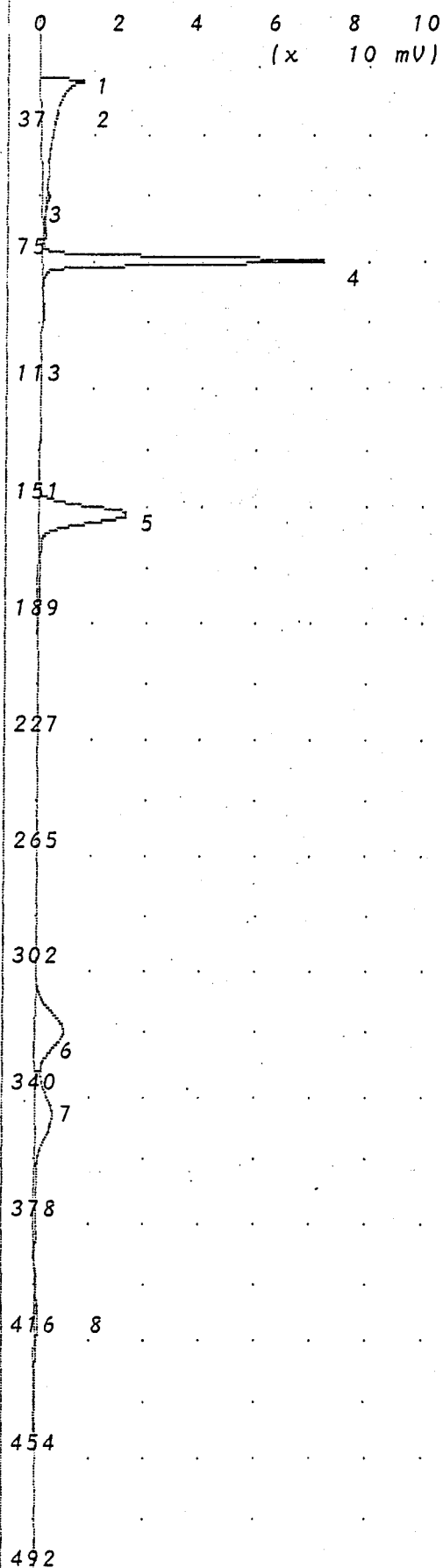
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.7 mVS	19.6
2	Unknown	2.998 mVS	29.2
3	Unknown	0.342 mVS	48.7
4	Unknown	3.848 mVS	54.0
5	Benzene	938.8 ppb	73.4
6	Toluene	743.9 ppb	152.2
7	Ethylbenzene	600.8 ppb	318.1
8	MP Xylene	1.185 ppm	343.3
9	O Xylene	512.5 ppb	404.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 1 ppm BTEX Standard Calibration

Analysis #17

10S+ GC Function Analysis Report



Time Printed: Oct 21, 94 15:37

Sample Time: Oct 21, 94 15:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

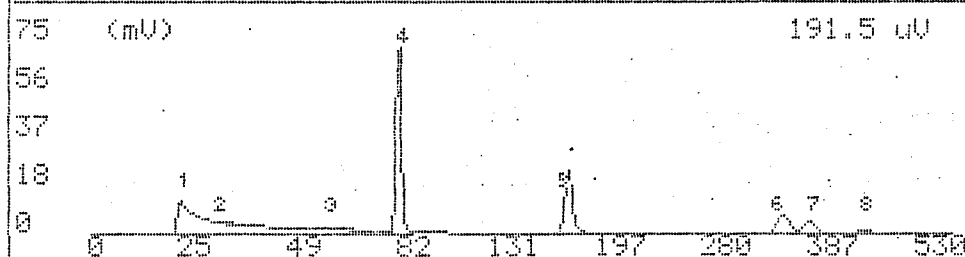
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	155.1 mVS	19.6
2	Unknown	0.827 mVS	29.0
3	Unknown	2.237 mVS	53.9
4	Benzene	87.17 ppb	72.8
5	Toluene	77.28 ppb	149.8
6	Ethylbenzene	68.71 ppb	318.1
7	MP Xylene	141.9 ppb	343.3
8	O Xylene	55.62 ppb	405.6

Notes

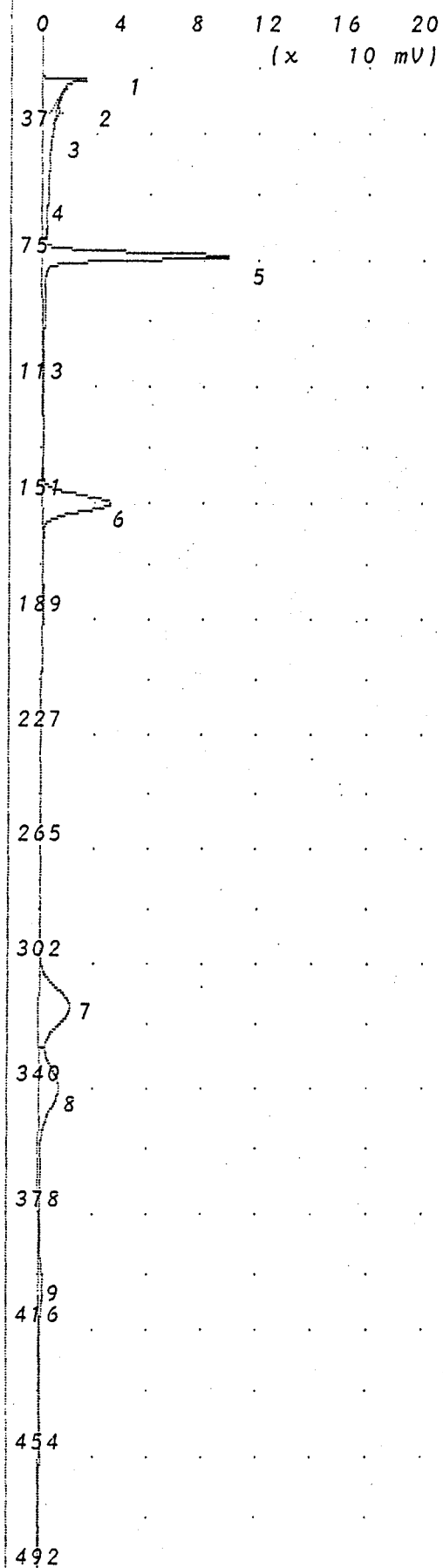
Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard Recal

Fault: Calibrant 10S+ GC Function Oct 21, 94 16:09					
-- Analysis No 17 -- Run at - Oct 21, 94 15:28 -					
Pk No	Name	Conc/Area	Alarm	Ret. Time	
1	Unknown	155.1 mUS	-No-	19.6	sec
2	Unknown	0.827 mUS	-No-	29.0	sec
3	Unknown	2.237 mUS	-No-	53.9	sec
4	Benzene	100.0 ppb	-No-	72.0	sec
5	Toluene	99.99 ppb	-No-	140.0	sec
6	Ethylbenzene	100.0 ppb	-No-	310.1	sec
7	MP Xylene	200.0 ppb	-No-	343.3	sec
8	O Xylene	99.99 ppb	-No-	405.6	sec
- Detected 8 peaks. [535 sec]					



Analysis #1

10S+ GC Function Analysis Report



Time Printed: Oct 24, 94 15:34

Sample Time: Oct 24, 94 15:25

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

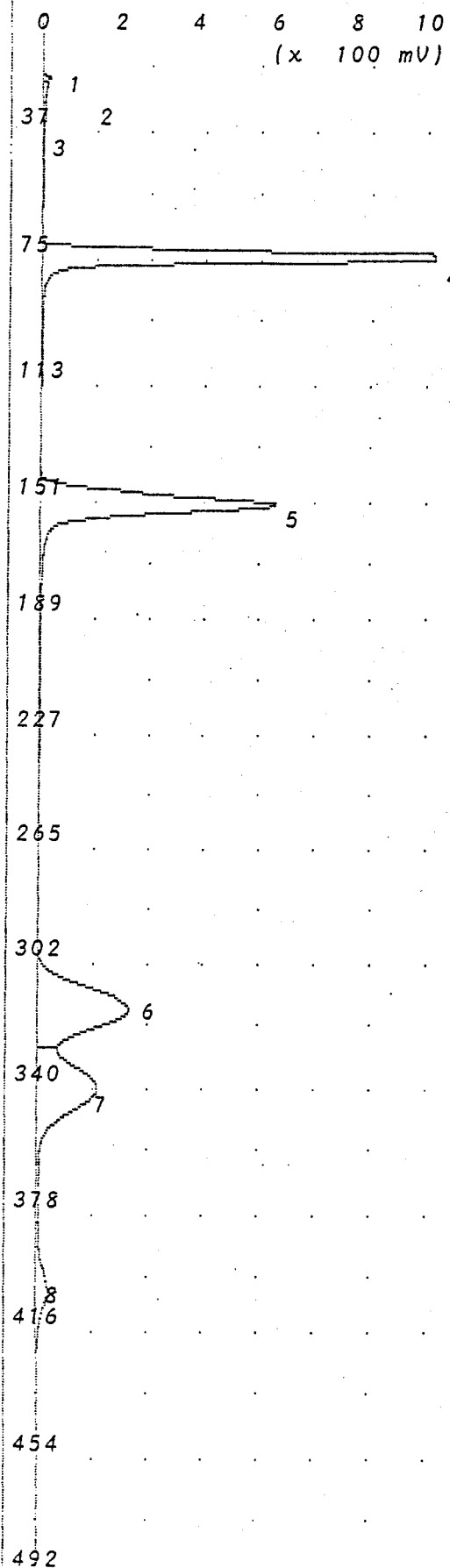
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	270.8 mVS	19.0
2	Unknown	0.802 mVS	21.2
3	Unknown	3.286 mVS	28.3
4	Unknown	0.686 mVS	53.9
5	Benzene	131.2 ppb	71.7
6	Toluene	126.1 ppb	149.2
7	Ethylbenzene	143.8 ppb	313.3
8	MP Xylene	302.0 ppb	338.0
9	O Xylene	190.8 ppb	399.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb Std

Analysis #2

10S+ GC Function Analysis Report



Time Printed: Oct 24, 94 15:47

Sample Time: Oct 24, 94 15:38

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	39.98 mVS	18.8
2	Unknown	75.90 mVS	21.0
3	Unknown	166.6 mVS	28.1
4	Benzene	1.917 ppm	72.1
5	Toluene	1.574 ppm	149.6
6	Ethylbenzene	1.323 ppm	314.1
7	MP Xylene	2.643 ppm	338.0
8	O Xylene	1.376 ppm	399.6

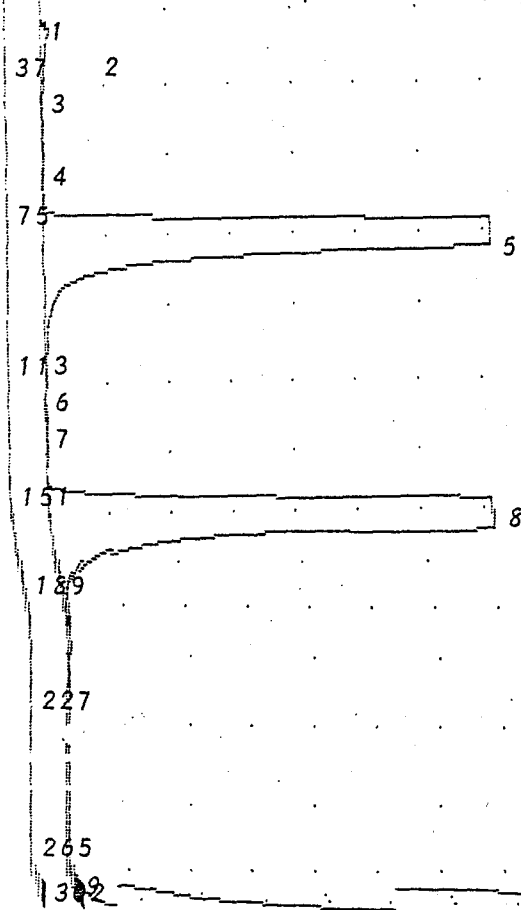
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm Std

Analysis #3

10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)



Time Printed: Oct 24, 94 16:00

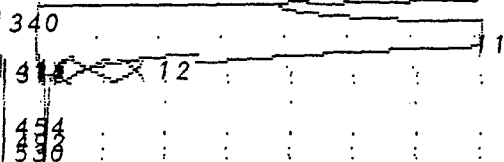
Sample Time: Oct 24, 94 15:51

Method

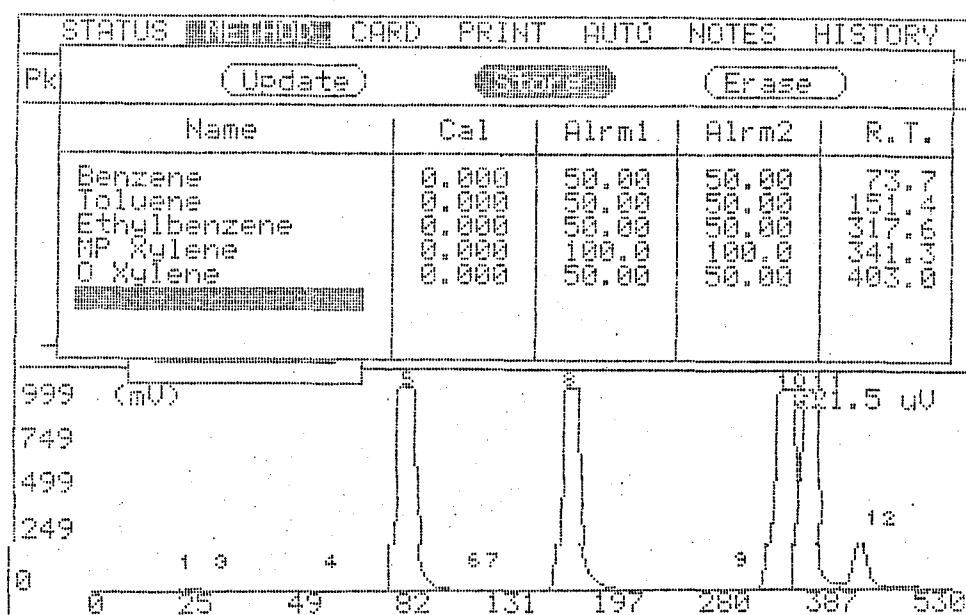
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.83 mVS	19.0
2	Unknown	275.5 mVS	20.7
3	Unknown	4.520 mVS	28.2
4	Unknown	0.505 mVS	53.5
5	Benzene	13.24 ppm	73.7
6	Unknown	4.270 mVS	109.6
7	Unknown	1.091 mVS	115.6
8	Toluene	11.47 ppm	151.4
9	Unknown	5.469 mVS	272.0
10	Ethylbenzene	11.54 ppm	317.6
11	MP Xylene	28.19 ppm	341.3
12	O Xylene	71.38 ppm	405.0



Mark Escobar Notes
Billy Mitchell Air National
604 ppm Benzene



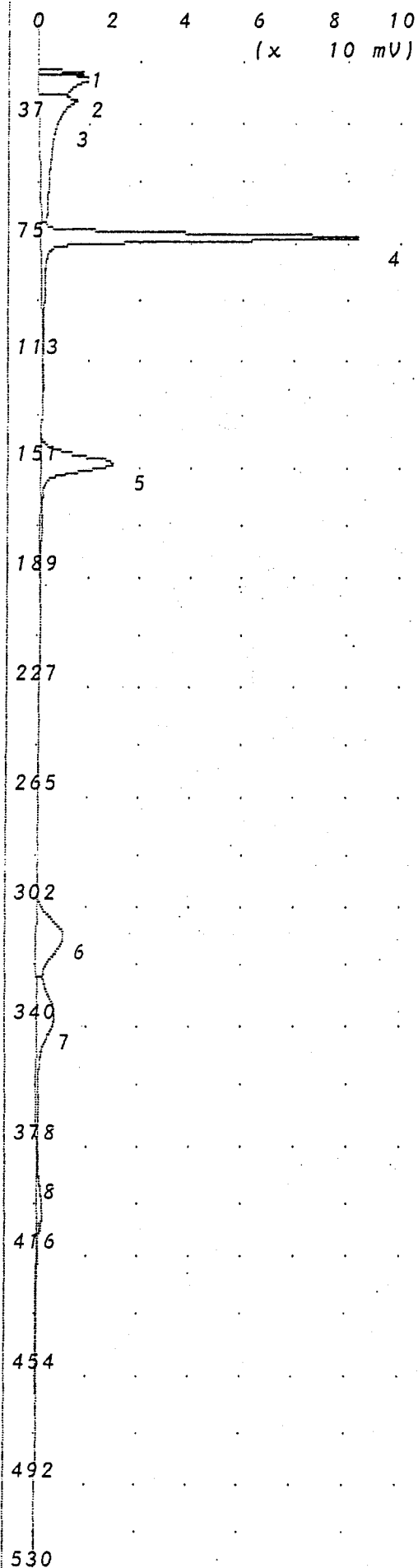
Fault: Calibrant 108+ GC Function Oct 24,94 16:06
 -- Analysis No 3 -- Run at - Oct 24,94 15:51 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	22.83 mUS	-No-	19.0 sec
2	Unknown	275.5 mUS	-No-	20.7 sec
3	Unknown	4.520 mUS	-No-	20.2 sec
4	Unknown	0.505 mUS	-No-	53.0 sec
5	Benzene	10.00 ppm	-No-	73.7 sec
6	Unknown	4.270 mUS	-No-	109.6 sec
7	Unknown	1.091 mUS	-No-	115.6 sec
8	Toluene	10.00 ppm	-No-	151.4 sec
9	Unknown	5.469 mUS	-No-	272.0 sec
- Detected 12 peaks. Use + + to scroll [535 sec]				

999 (mV) 749 499 249 0

0 25 49 82 131 197 280 387 530

12 1.5 uV



Time Printed: Oct 25, 94 10:32

Sample Time: Oct 25, 94 10:23

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.74 mVS	18.8
2	Unknown	71.66 mVS	21.0
3	Unknown	161.7 mVS	27.9
4	Benzene	84.28 ppb	71.0
5	Toluene	54.53 ppb	146.4
6	Ethylbenzene	47.36 ppb	310.1
7	MP Xylene	102.1 ppb	334.4
8	O Xylene	49.52 ppb	390.0

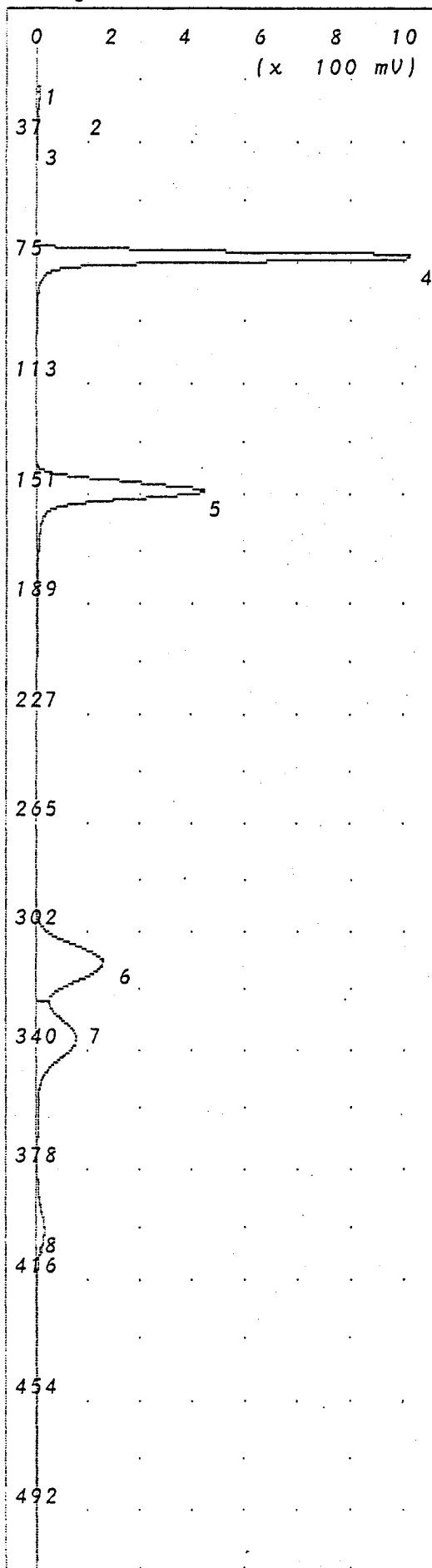
Notes

Mark Escobar

Billy Mitchell Air National
Guard Base~~04-008PS 1, 3~~ / 100 ppb BTEX STD

12

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 10:46
Sample Time: Oct 25,94 10:37

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

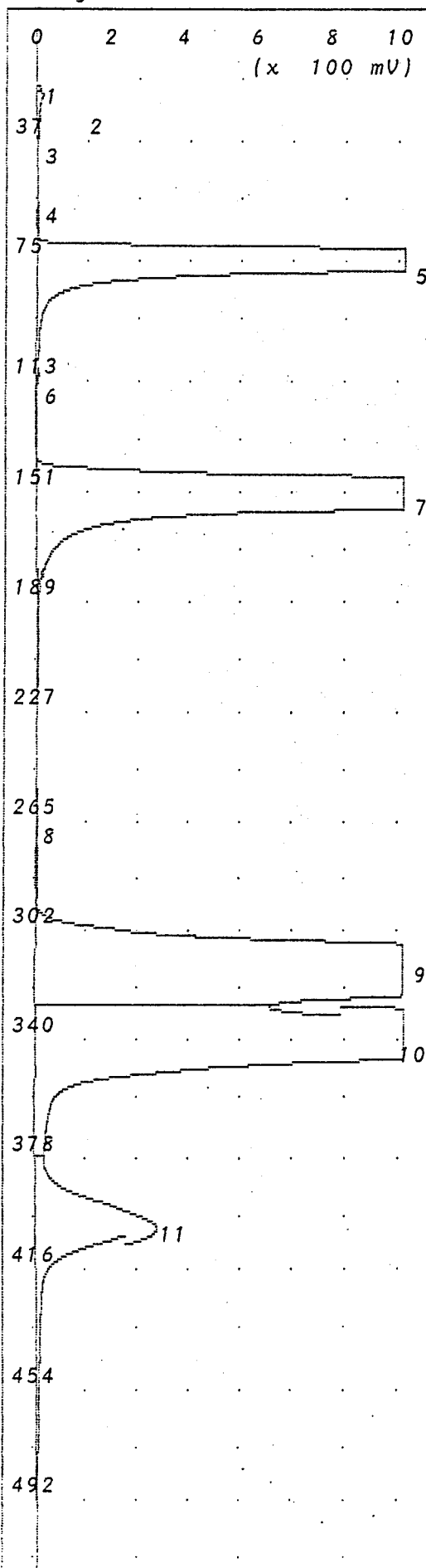
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	24.06 mVS	18.6
2	Unknown	54.42 mVS	20.6
3	Unknown	65.34 mVS	27.7
4	Benzene	827.1 ppb	71.3
5	Toluene	780.4 ppb	148.0
6	Ethylbenzene	764.1 ppb	309.6
7	MP Xylene	1.457 ppm	334.1
8	O Xylene	816.3 ppb	395.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard

Analysis #3

10S+ GC Function Analysis Report



Time Printed: Oct 25, 94 11:10

Sample Time: Oct 25, 94 11:02

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	26.18 mVS	18.7
2	Unknown	230.3 mVS	20.5
3	Unknown	4.169 mVS	27.9
4	Unknown	0.994 mVS	52.3
5	Benzene	9.177 ppm	72.8
6	Unknown	5.252 mVS	109.2
7	Toluene	10.26 ppm	149.2
8	Unknown	7.625 mVS	267.7
9	Ethylbenzene	10.95 ppm	313.0
10	MP Xylene	23.29 ppm	335.7
11	O Xylene	14.04 ppm	398.0

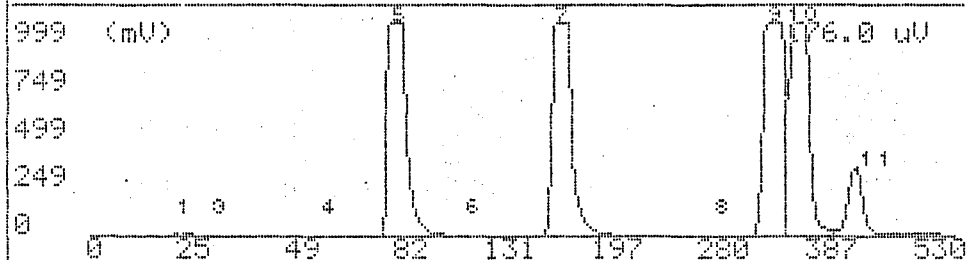
Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 10 ppm BTEX Standard

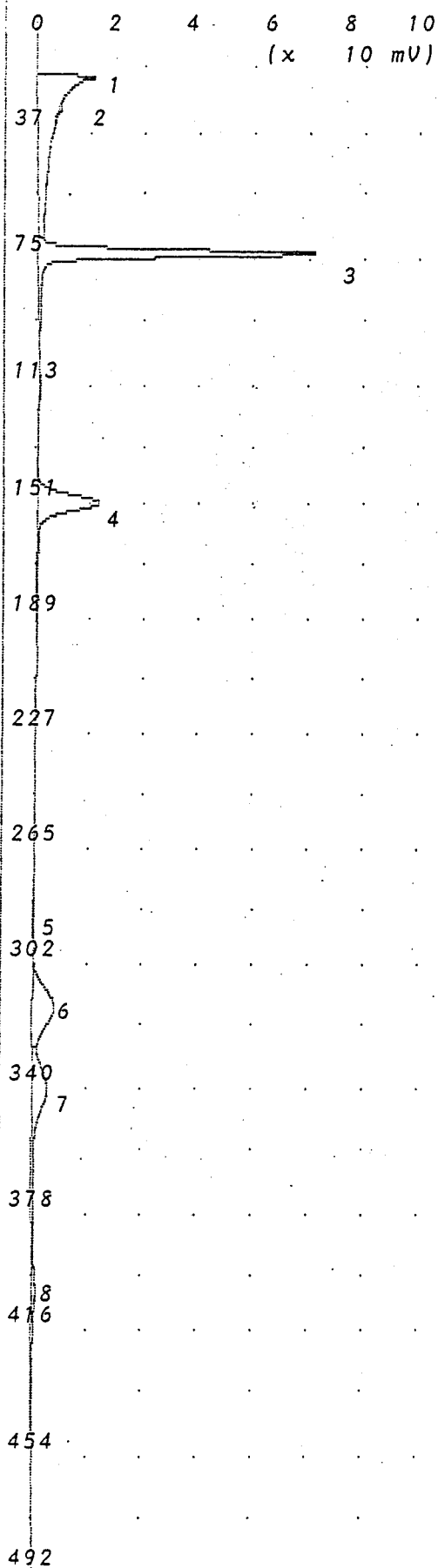
Fault: Calibrant 10S+ GC Function Oct 25, 94 11:14
 -- Analysis No 3 -- Run at - Oct 25, 94 11:02 -

Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	26.22 mUS	-No-	18.7 sec
2	Unknown	244.3 mUS	-No-	29.5 sec
3	Unknown	4.169 mUS	-No-	27.9 sec
4	Unknown	0.994 mUS	-No-	52.4 sec
5	Benzene	10.00 ppm	-No-	72.0 sec
6	Unknown	5.252 mUS	-No-	109.3 sec
7	Toluene	10.00 ppm	-No-	149.2 sec
8	Unknown	7.625 mUS	-No-	267.4 sec
9	Ethylbenzene	10.00 ppm	-No-	313.0 sec

- Detected 11 peaks. Use + + to scroll [535 sec]



Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 25, 94 12:38

Sample Time: Oct 25, 94 12:29

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

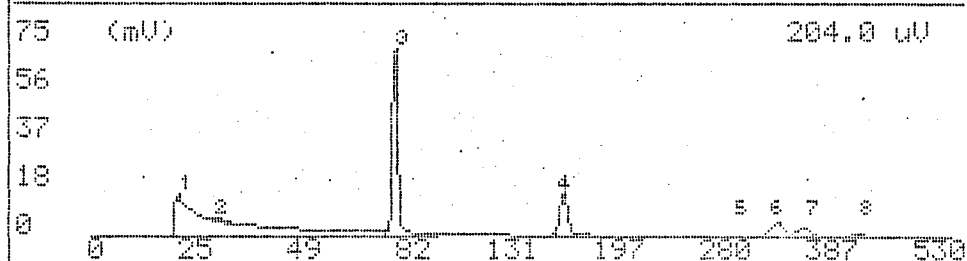
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	210.2 mVS	18.8
2	Unknown	1.092 mVS	28.0
3	Benzene	77.35 ppb	71.4
4	Toluene	81.52 ppb	149.0
5	Unknown	2.202 mVS	277.8
6	Ethylbenzene	77.14 ppb	313.8
7	MP Xylene	155.9 ppb	338.3
8	O Xylene	58.87 ppb	400.3

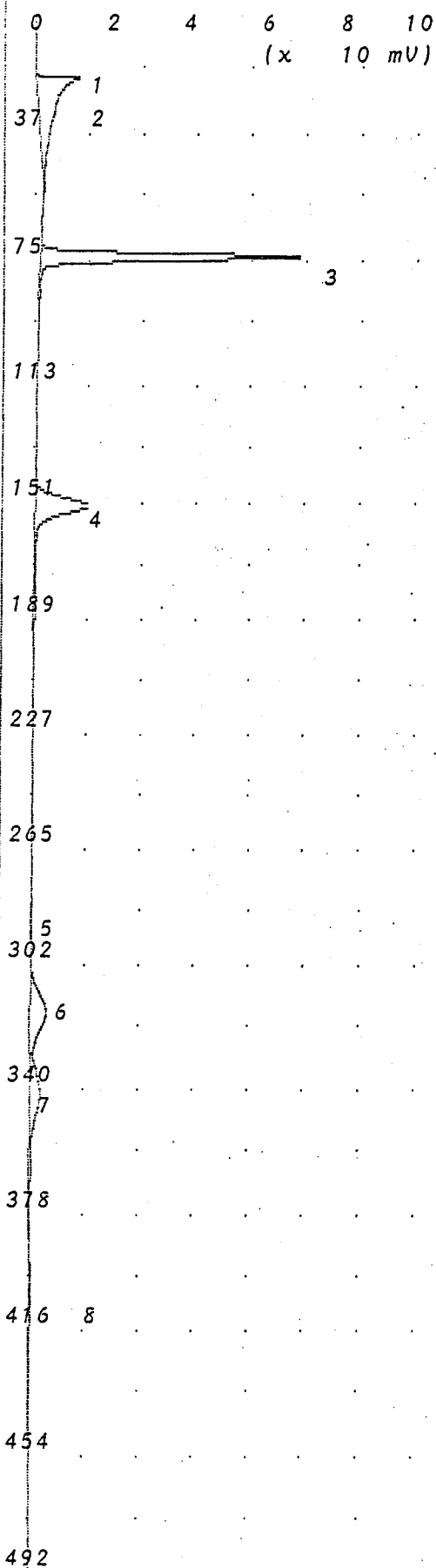
Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 100 ppb BTEX Standard

Fault: Calibrant 108+ GC Function Oct 25, 94 12:41				
-- Analysis No 10 -- Run at - Oct 25, 94 12:29 -				
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	210.2 mUS	-No-	18.0 sec
2	Unknown	1.092 mUS	-No-	20.0 sec
3	Benzene	100.0 ppb	-No-	71.4 sec
4	Toluene	100.0 ppb	-No-	149.0 sec
5	Unknown	2.202 mUS	-No-	277.0 sec
6	Ethylbenzene	100.0 ppb	-No-	313.0 sec
7	MP Xylene	200.0 ppb	-No-	338.0 sec
8	O Xylene	100.0 ppb	-No-	400.3 sec
- Detected 8 peaks. [535 sec]				



Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 25, 94 14:27

Sample Time: Oct 25, 94 14:18

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

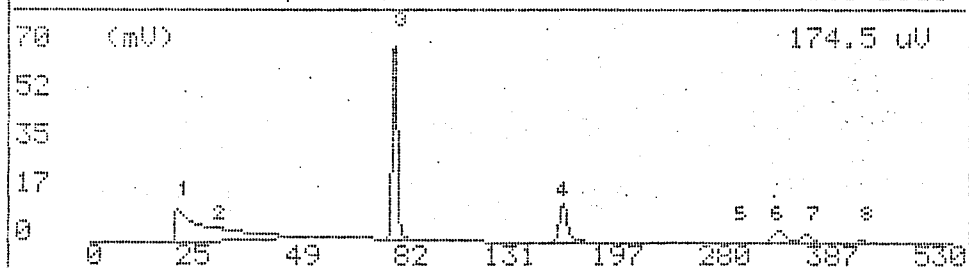
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	114.1 mVS	19.2
2	Unknown	0.701 mVS	28.6
3	Benzene	79.86 ppb	72.0
4	Toluene	85.81 ppb	149.8
5	Unknown	1.941 mVS	280.8
6	Ethylbenzene	73.24 ppb	314.9
7	MP Xylene	148.2 ppb	339.6
8	O Xylene	62.29 ppb	401.0

Notes

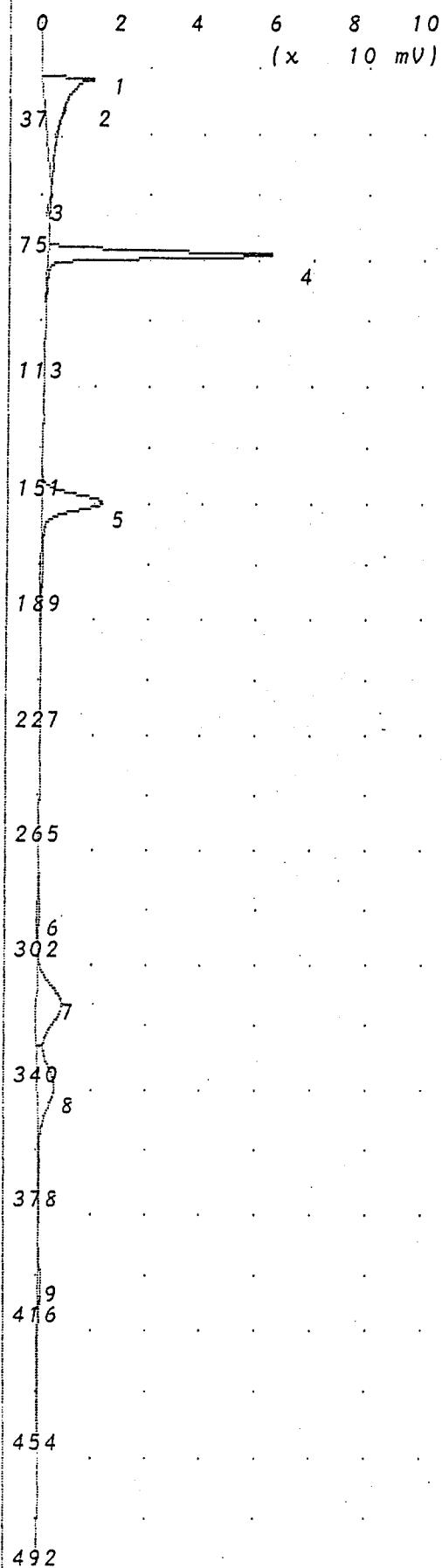
Mark Escobar
 Billy Mitchell Air National
 Guard Base
 100ppb BTEX Standard

Fault: Calibrant 10S+ GC Function Oct 25, 94 14:30					
-- Analysis No 17 -- Run at - Oct 25, 94 14:18 -					
Pk No	Name	Conc/Area	Alarm	Ret. Time	
1	Unknown	114.1 mUS	-No-	19.2	sec
2	Unknown	0.701 mUS	-No-	20.6	sec
3	Benzene	99.99 ppb	-No-	72.0	sec
4	Toluene	99.99 ppb	-No-	140.0	sec
5	Unknown	1.941 mUS	-No-	200.0	sec
6	Ethylbenzene	99.99 ppb	-No-	314.0	sec
7	MP Xylene	199.9 ppb	-No-	339.0	sec
8	O Xylene	100.0 ppb	-No-	401.0	sec
- Detected 8 peaks. [535 sec]					



Analysis #1

10S+ GC Function Analysis Report



Time Printed: Oct 26, 94 11:18

Sample Time: Oct 26, 94 11:09

Method

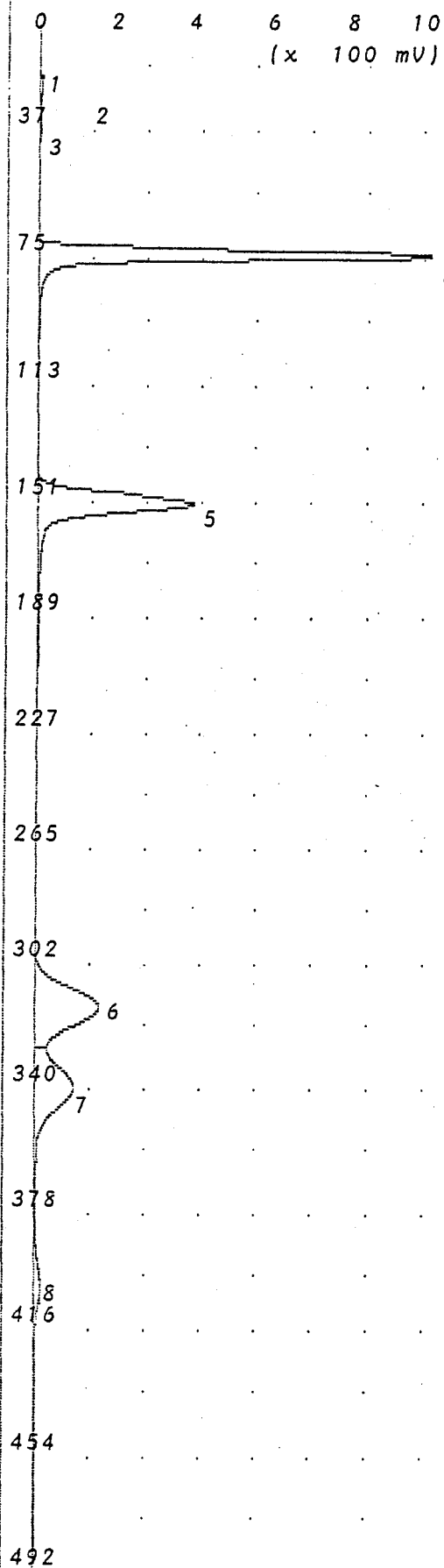
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.4 mVS	18.9
2	Unknown	0.559 mVS	27.8
3	Unknown	0.068 mVS	54.3
4	Benzene	88.95 ppb	71.4
5	Toluene	103.6 ppb	148.6
6	Unknown	1.652 mVS	277.8
7	Ethylbenzene	110.6 ppb	312.5
8	MP Xylene	226.6 ppb	337.3
9	O Xylene	114.7 ppb	398.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard



Time Printed: Oct 26,94 11:31

Sample Time: Oct 26,94 11:22

Method

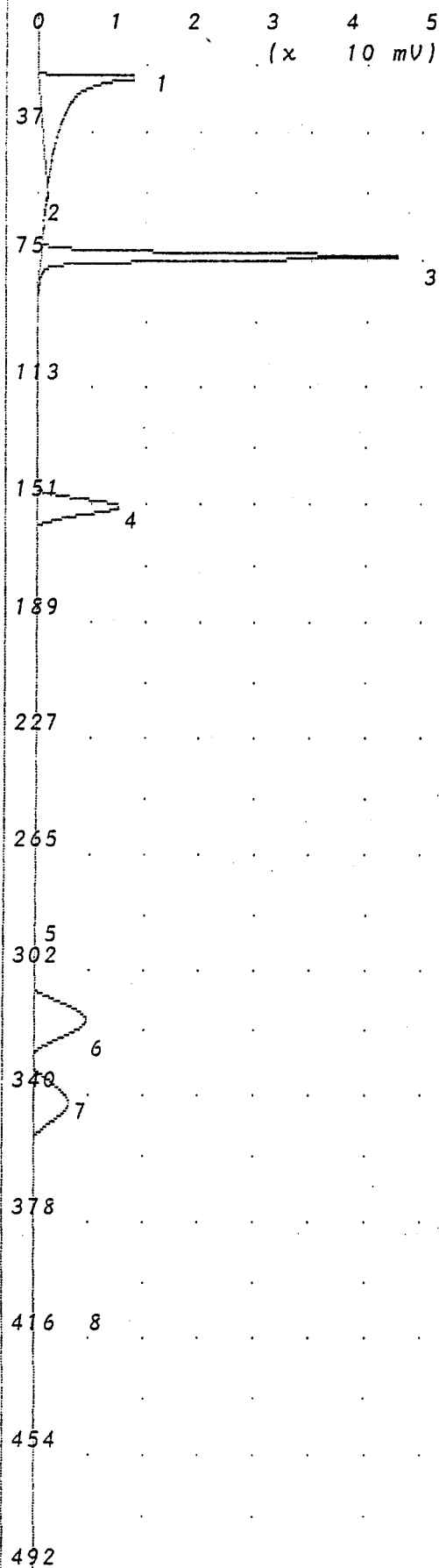
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	17.98 mVS	19.0
2	Unknown	47.30 mVS	20.9
3	Unknown	57.11 mVS	28.0
4	Benzene	948.2 ppb	72.1
5	Toluene	909.4 ppb	149.6
6	Ethylbenzene	905.5 ppb	313.3
7	MP Xylene	1.812 ppm	338.0
8	O Xylene	820.9 ppb	397.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard



Time Printed: Oct 26,94 14:04

Sample Time: Oct 26,94 13:55

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	113.8 mVS	19.4
2	Unknown	0.143 mVS	54.3
3	Benzene	76.72 ppb	71.8
4	Toluene	78.78 ppb	149.8
5	Unknown	2.541 mVS	279.7
6	Ethylbenzene	115.7 ppb	315.4
7	MP Xylene	257.5 ppb	340.6
8	O Xylene	175.1 ppb	402.0

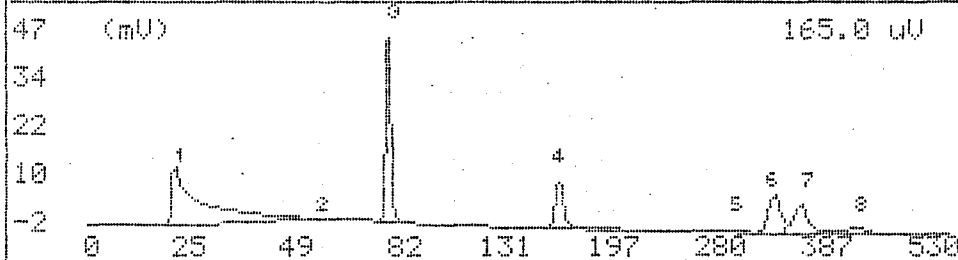
Notes

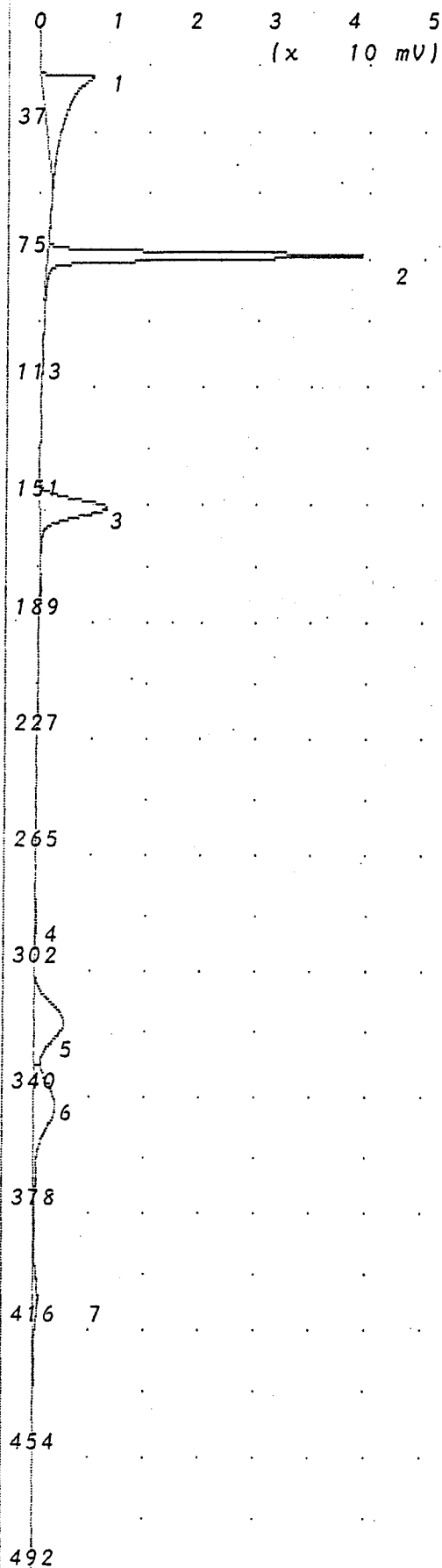
Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

Fault: Calibrant 109+ GC Function Oct 26,94 14:07
 -- Analysis No 10 -- Run at - Oct 26,94 13:55 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	113.8 mUS	-No-	19.4 sec
2	Unknown	0.143 mUS	-No-	54.3 sec
3	Benzene	99.99 ppb	-No-	71.8 sec
4	Toluene	100.0 ppb	-No-	149.8 sec
5	Unknown	2.541 mUS	-No-	279.7 sec
6	Ethylbenzene	100.0 ppb	-No-	315.4 sec
7	MP Xylene	100.0 ppb	-No-	340.6 sec
8	O Xylene	100.6 ppb	-No-	402.0 sec

- Detected 8 peaks. [535 sec]





Time Printed: Oct 26, 94 15:25

Sample Time: Oct 26, 94 15:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

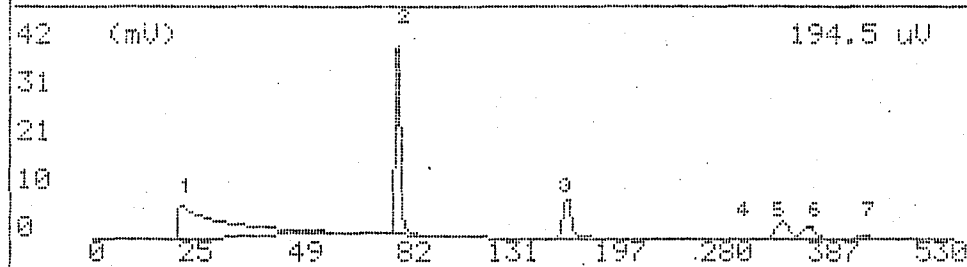
Peak Report

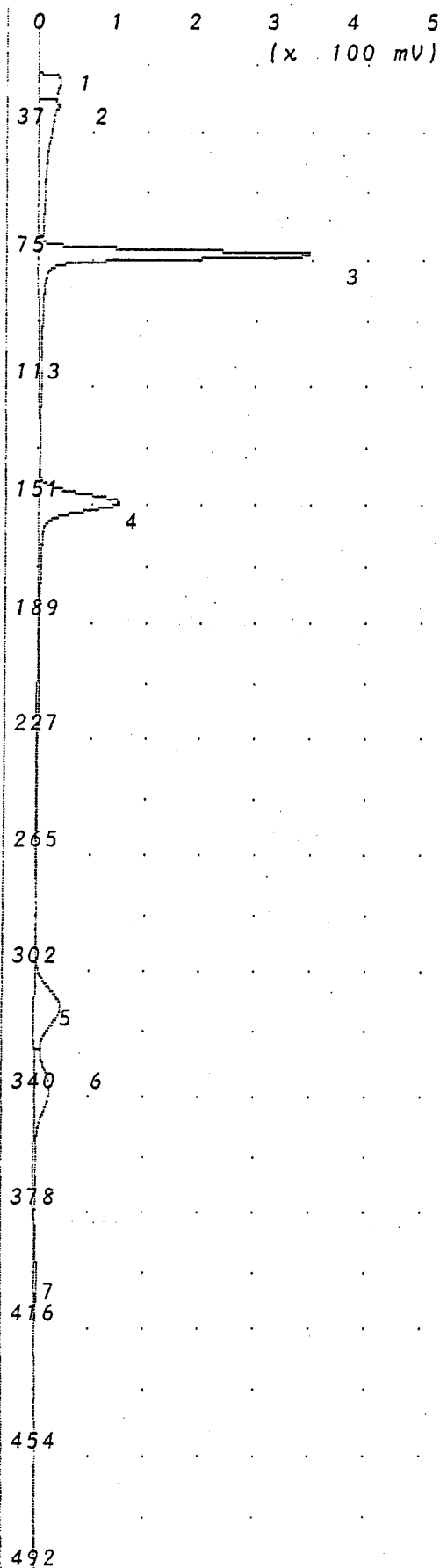
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	83.48 mVS	19.2
2	Benzene	88.50 ppb	72.0
3	Toluene	71.98 ppb	150.0
4	Unknown	2.286 mVS	280.8
5	Ethylbenzene	43.14 ppb	315.7
6	MP Xylene	41.24 ppb	341.0
7	O Xylene	22.91 ppb	402.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

Fault: Calibrant 10S+ GC Function Oct 26,94 15:30					
-- Analysis No 17 -- Run at - Oct 26,94 15:16 -					
Pk No	Name	Conc/Area	Alarm	Ret.Time	
1	Unknown	83.48 mUS	-No-	19.2 sec	
2	Benzene	99.99 ppb	-No-	72.0 sec	
3	Toluene	100.0 ppb	-No-	150.0 sec	
4	Unknown	2.286 mUS	-No-	280.0 sec	
5	Ethylbenzene	100.0 ppb	-No-	315.7 sec	
6	MP Xylene	200.0 ppb	-No-	341.0 sec	
7	O Xylene	100.0 ppb	-No-	402.3 sec	
--					
--					
- Detected 7 peaks.				[535 sec]	





Time Printed: Oct 27, 94 10:01

Sample Time: Oct 27, 94 09:52

Method

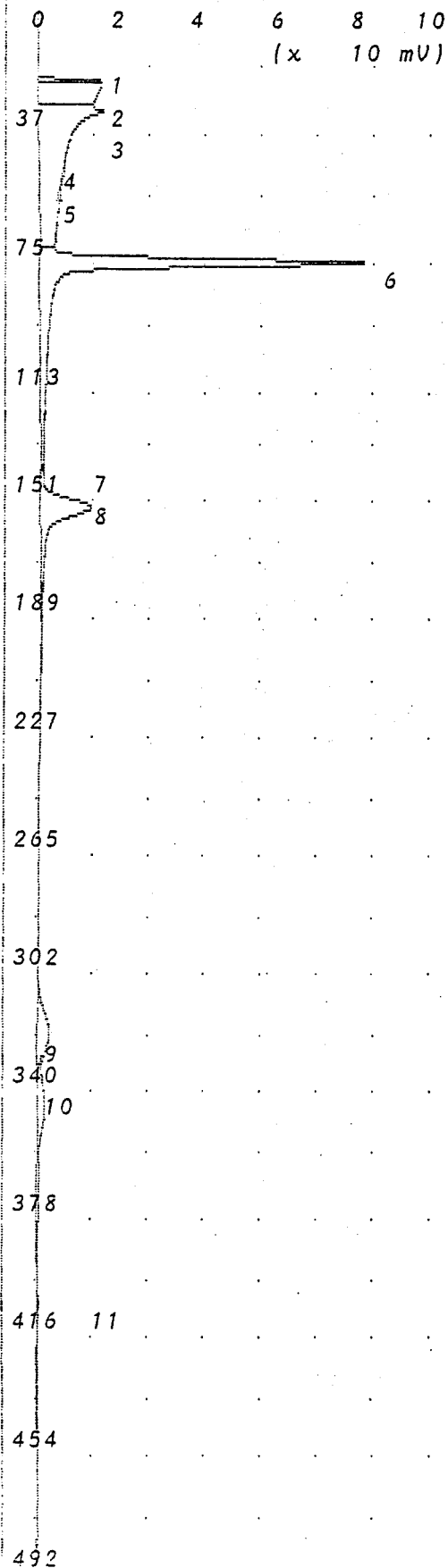
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	216.3 mVS	19.0
2	Unknown	516.2 mVS	27.9
3	Benzene	377.0 ppb	71.6
4	Toluene	346.9 ppb	148.4
5	Ethylbenzene	255.8 ppb	311.4
6	MP Xylene	521.6 ppb	332.2
7	O Xylene	311.3 ppb	397.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX standard



Time Printed: Oct 29, 94 13:07

Sample Time: Oct 29, 94 12:58

Method

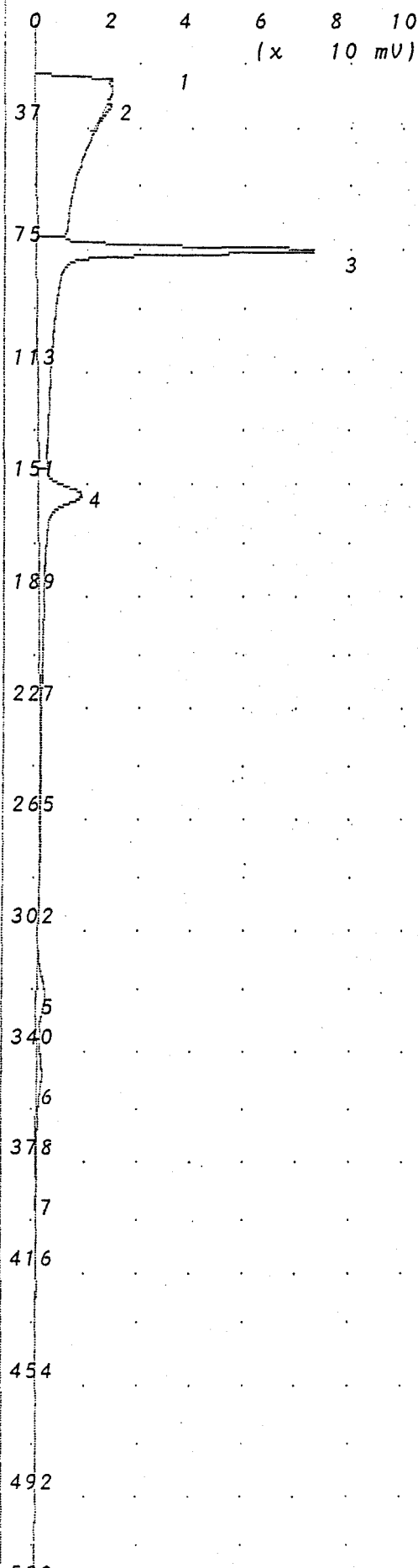
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.09 mVS	20.0
2	Unknown	100.3 mVS	21.7
3	Unknown	294.8 mVS	28.7
4	Unknown	0.667 mVS	47.1
5	Unknown	0.754 mVS	54.0
6	Benzene	112.5 ppb	72.9
7	Unknown	0.151 mVS	136.5
8	Toluene	103.9 ppb	151.2
9	Ethylbenzene	100.6 ppb	317.6
10	MP Xylene	201.5 ppb	342.6
11	O Xylene	91.82 ppb	403.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard



Time Printed: Oct 29, 94 15:17

Sample Time: Oct 29, 94 15:08

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	694.3 mVS	20.6
2	Unknown	6.364 mVS	28.8
3	Benzene	120.9 ppb	73.3
4	Toluene	110.4 ppb	152.4
5	Ethylbenzene	77.71 ppb	320.2
6	MP Xylene	120.6 ppb	345.3
7	O Xylene	3.538 ppb	382.3

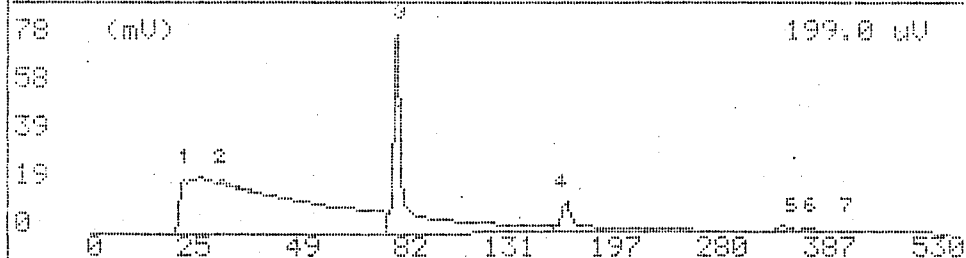
Notes

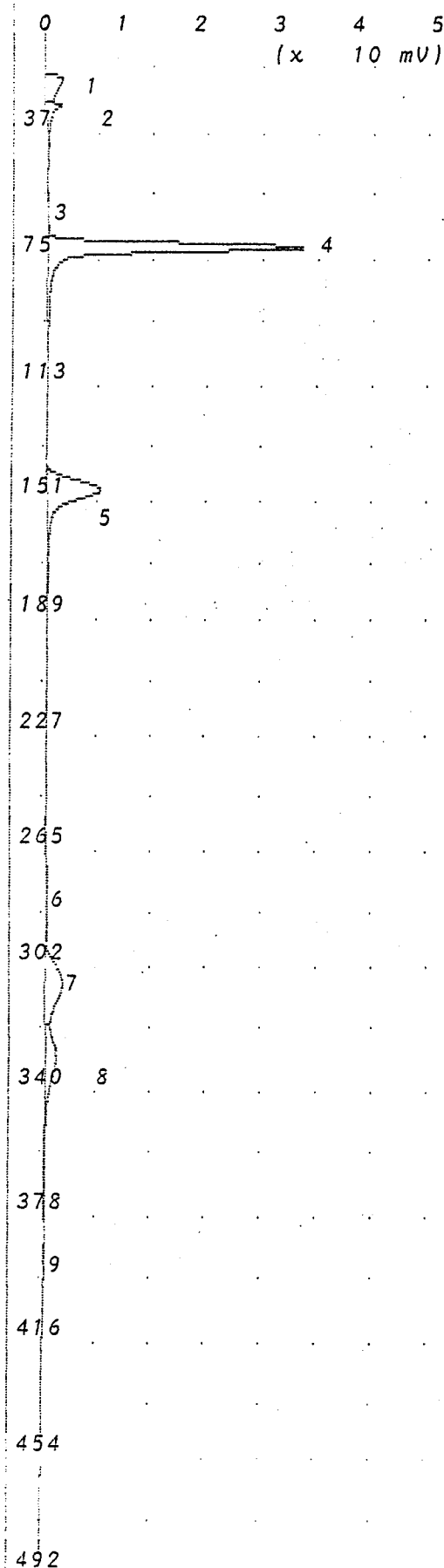
Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard

G.C. Ready 188+ GC Function Oct 29, 94 15:20
 -- Analysis No 26 -- Run at - Oct 29, 94 15:08 -

PK No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	694.3 mUS	-No-	20.6 sec
2	Unknown	6.364 mUS	-No-	28.8 sec
3	Benzene	100.0 ppb	-No-	73.3 sec
4	Toluene	100.0 ppb	-No-	152.4 sec
5	Ethylbenzene	99.99 ppb	-No-	320.0 sec
6	MP Xylene	200.0 ppb	-No-	345.3 sec
7	O Xylene	100.0 ppb	-No-	382.3 sec

- Detected 7 peaks. [535 sec]





Time Printed: Oct 31, 94 13:51

Sample Time: Oct 31, 94 13:42

Method

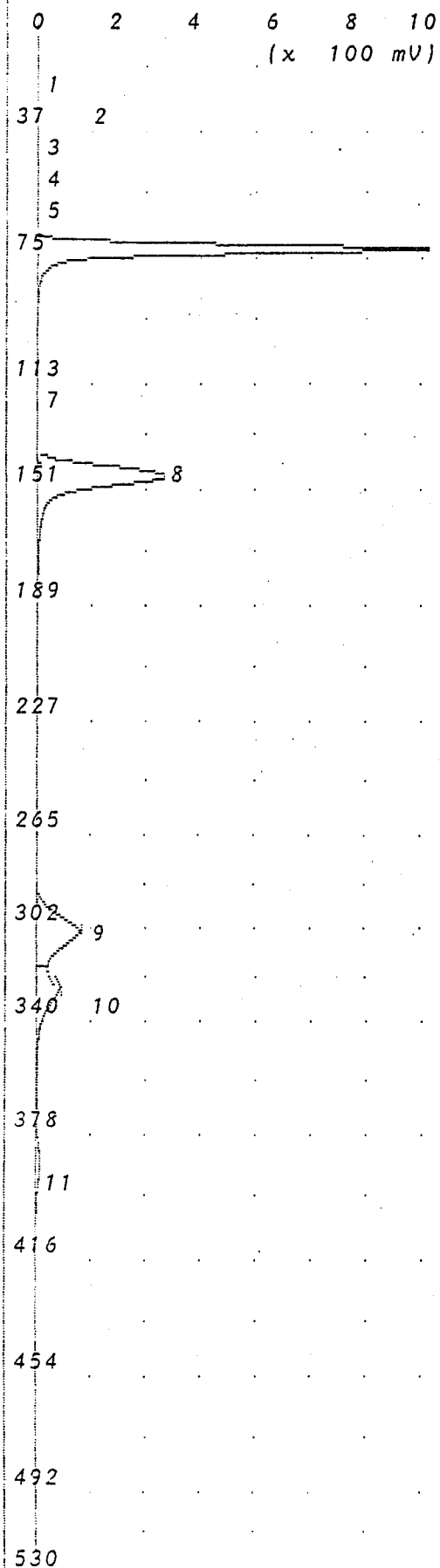
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 28 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.72 mVS	18.6
2	Unknown	9.155 mVS	26.9
3	Unknown	1.779 mVS	55.4
4	Unknown	105.8 mVS	69.4
5	Unknown	53.43 mVS	145.6
6	Unknown	5.029 mVS	274.9
7	Unknown	32.83 mVS	305.8
8	Unknown	23.66 mVS	324.8
9	Unknown	0.564 mVS	387.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 BTEX Standard



Time Printed: Oct 31, 94 14:06

Sample Time: Oct 31, 94 13:57

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 30 C
 Max Gain 1000
 Analysis Time 530.0 sec

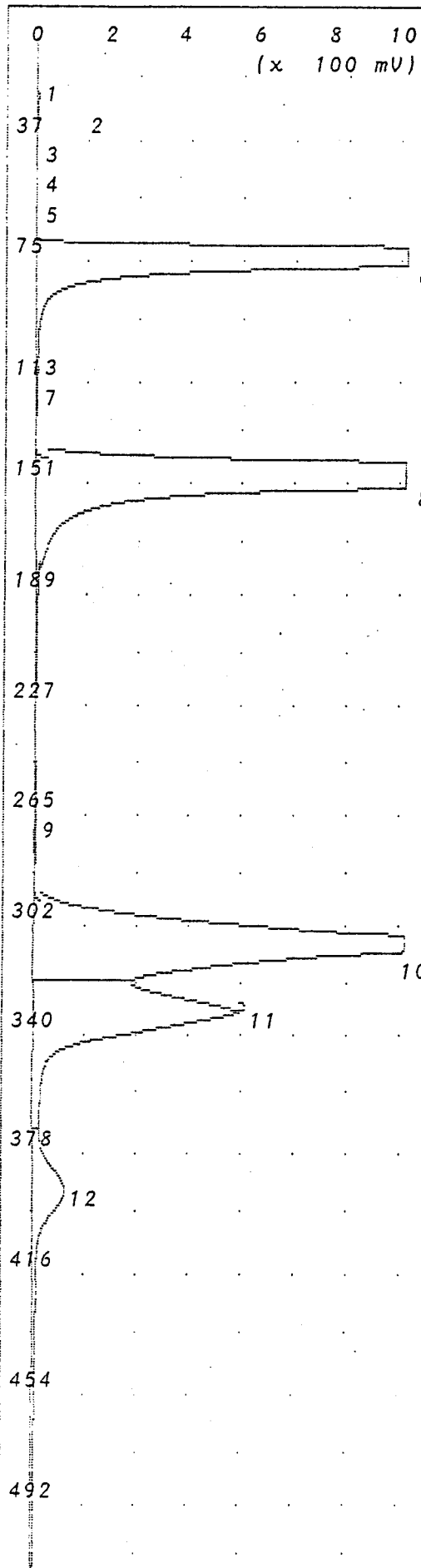
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.541 mVS	18.7
2	Unknown	19.86 mVS	20.9
3	Unknown	36.37 mVS	27.6
4	Unknown	0.237 mVS	45.0
5	Unknown	9.184 mVS	55.5
6	Benzene	3.582 ppm	70.5
7	Unknown	0.300 mVS	107.6
8	Toluene	5.261 ppm	145.0
9	Ethylbenzene	5.401 ppm	302.9
10	MP Xylene	10.13 ppm	326.4
11	O Xylene	73.19 ppm	385.3

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 31, 94 14:18

Sample Time: Oct 31, 94 14:09

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 31 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.093 mVS	19.0
2	Unknown	39.21 mVS	21.4
3	Unknown	48.66 mVS	28.0
4	Unknown	7.472 mVS	45.6
5	Unknown	6.512 mVS	52.6
6	Benzene	4.834 ppm	71.8
7	Unknown	4.571 mVS	107.4
8	Toluene	6.517 ppm	146.2
9	Unknown	1.740 mVS	261.0
10	Ethylbenzene	8.716 ppm	306.1
11	MP Xylene	15.46 ppm	329.3
12	O Xylene	5.011 ppm	387.6

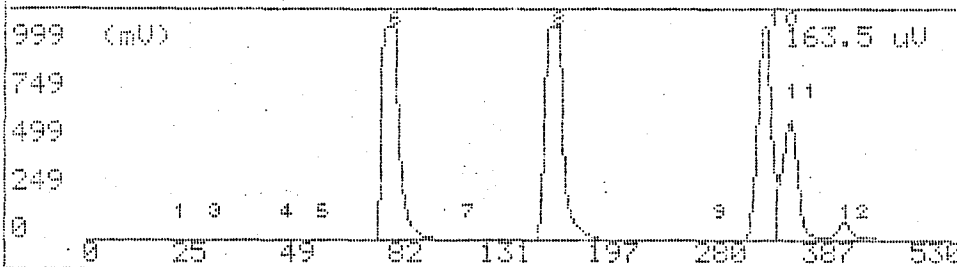
Notes

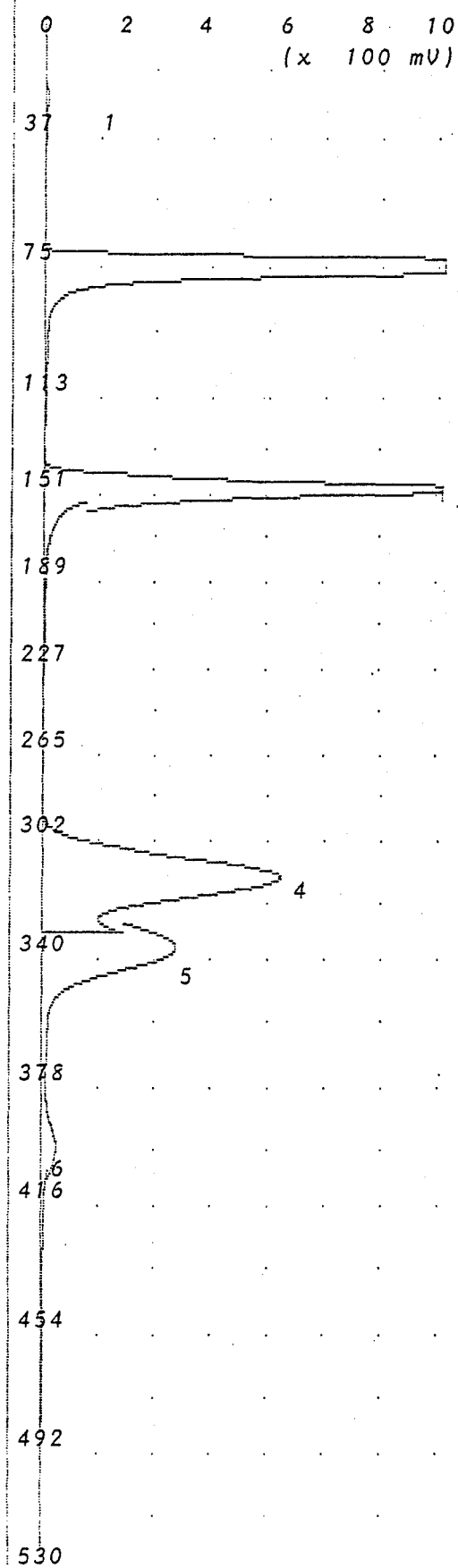
Billy Mitchell Air National
 Guard Base
 Mark Escobar
 10 ppm BTEX Standard

G.C. Ready 10S+ GC Function Oct 31, 94 14:21
 -- Analysis No 3 -- Run at - Oct 31, 94 14:00 -

Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	5.093 mUS	-No-	19.0 sec
2	Unknown	39.21 mUS	-No-	21.4 sec
3	Unknown	48.66 mUS	-No-	28.0 sec
4	Unknown	7.472 mUS	-No-	45.6 sec
5	Unknown	6.512 mUS	-No-	52.6 sec
6	Benzene	10.00 ppm	-No-	71.0 sec
7	Unknown	4.571 mUS	-No-	107.4 sec
8	Toluene	10.00 ppm	-No-	146.2 sec
9	Unknown	1.740 mUS	-No-	261.0 sec

- Detected 12 peaks. Use + + to scroll [535 sec]





Time Printed: Oct 31, 94 16:06

Sample Time: Oct 31, 94 15:57

Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

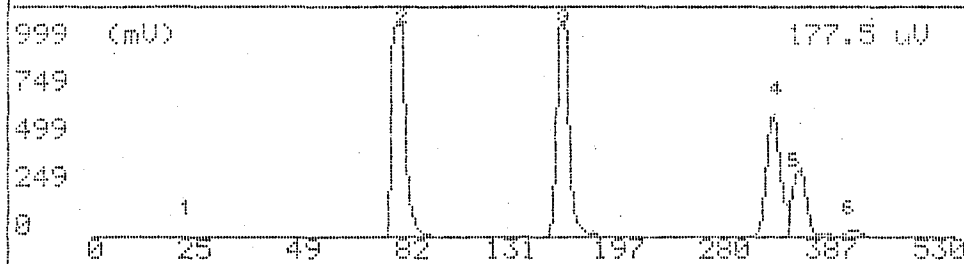
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	177.2 mVS	22.1
2	Benzene	3.966 ppm	72.6
3	Toluene	6.150 ppm	148.8
4	Ethylbenzene	5.632 ppm	310.9
5	MP Xylene	10.40 ppm	334.6
6	O Xylene	4.572 ppm	393.6

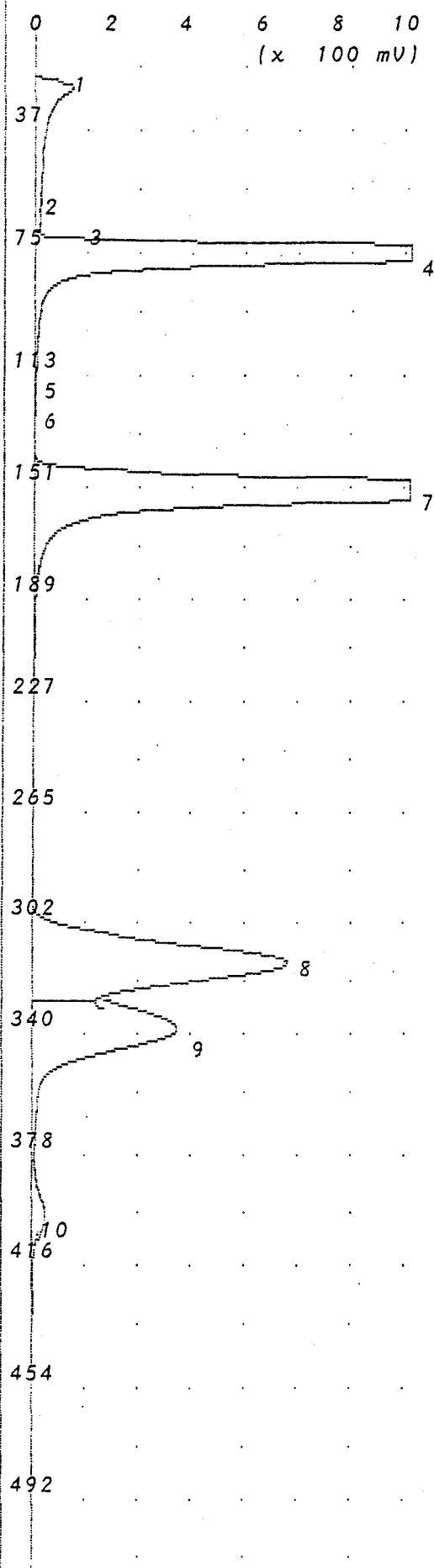
Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 10 ppm BTEX Standard

G.C. Ready		10S+ GC Function	Oct 31, 94	16:23
Analysis No 11		Run at - Oct 31, 94 15:57 -		
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	177.6 mVS	-No-	22.1 sec
2	Benzene	10.00 ppm	-No-	72.6 sec
3	Toluene	10.00 ppm	-No-	140.0 sec
4	Ethylbenzene	10.00 ppm	-No-	310.0 sec
5	MP Xylene	20.01 ppm	-No-	334.6 sec
6	O Xylene	10.15 ppm	-No-	393.6 sec

- Detected 6 peaks.				[535 sec]





Time Printed: Nov 1, 94 14:06

Sample Time: Nov 1, 94 13:57

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

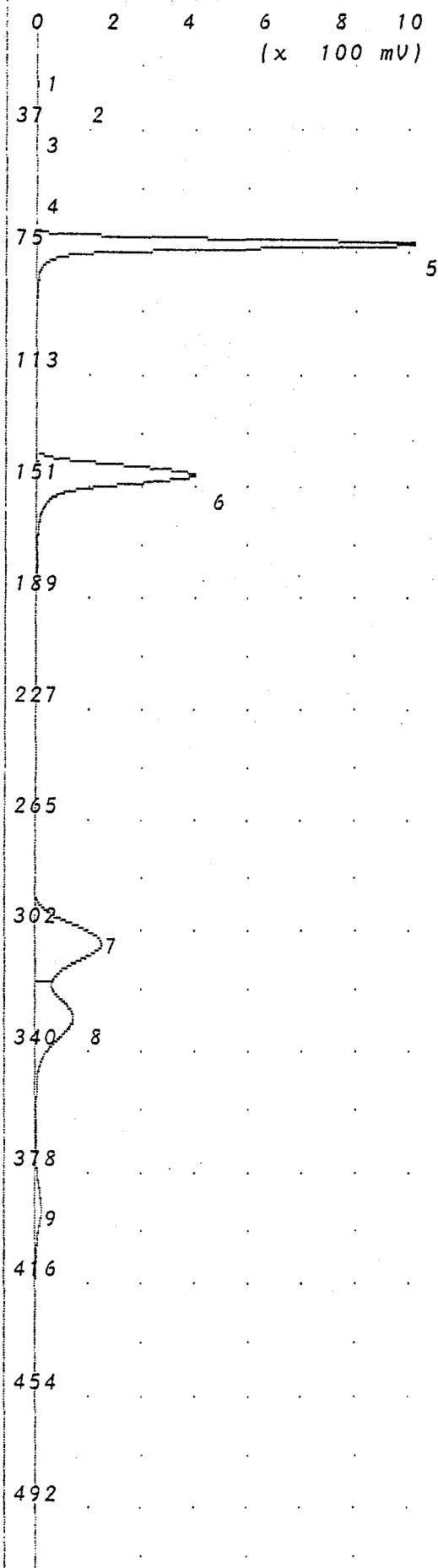
PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.669 VSec	21.9
2	Unknown	2.022 mVS	53.8
3	Unknown	2.323 mVS	61.8
4	Benzene	9.702 ppm	73.2
5	Unknown	2.507 mVS	108.8
6	Unknown	1.669 mVS	114.8
7	Toluene	8.215 ppm	149.8
8	Ethylbenzene	5.800 ppm	312.8
9	MP Xylene	12.89 ppm	336.6
10	O Xylene	3.711 ppm	395.3

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 10 ppm BTEX Standard

Analysis #5

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 09:25

Sample Time: Nov 1, 94 09:16

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

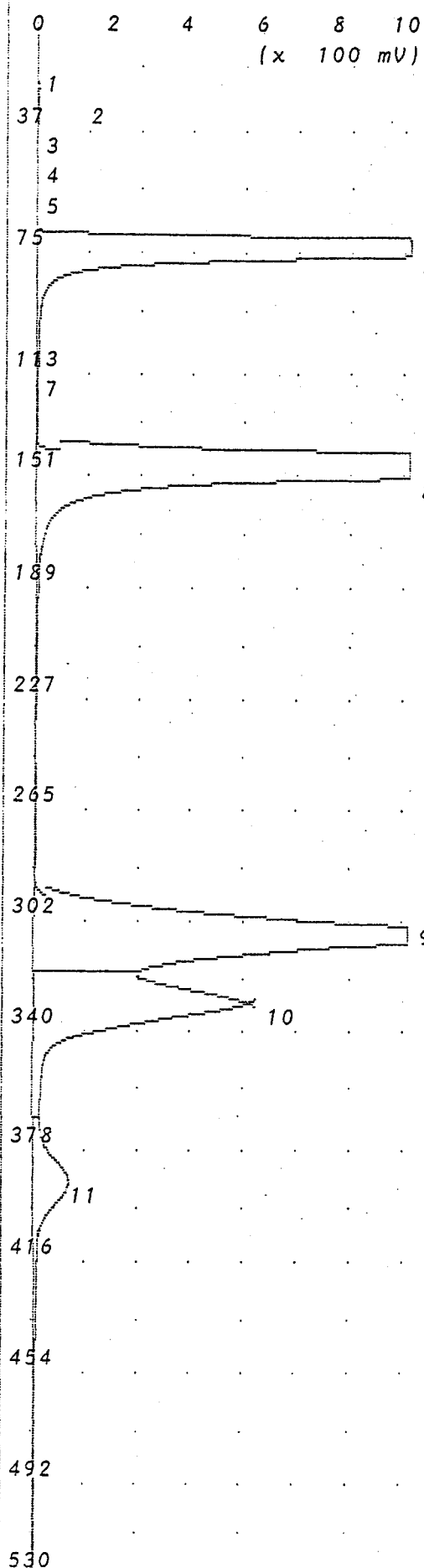
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.164 mVS	18.8
2	Unknown	21.42 mVS	21.0
3	Unknown	27.89 mVS	27.7
4	Unknown	0.627 mVS	54.1
5	Benzene	1.057 ppm	70.6
6	Toluene	1.173 ppm	145.4
7	Ethylbenzene	1.437 ppm	304.2
8	MP Xylene	521.8 ppb	327.7
9	O Xylene	1.743 ppm	386.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

Analysis #4

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 09:11

Sample Time: Nov 1, 94 09:02

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

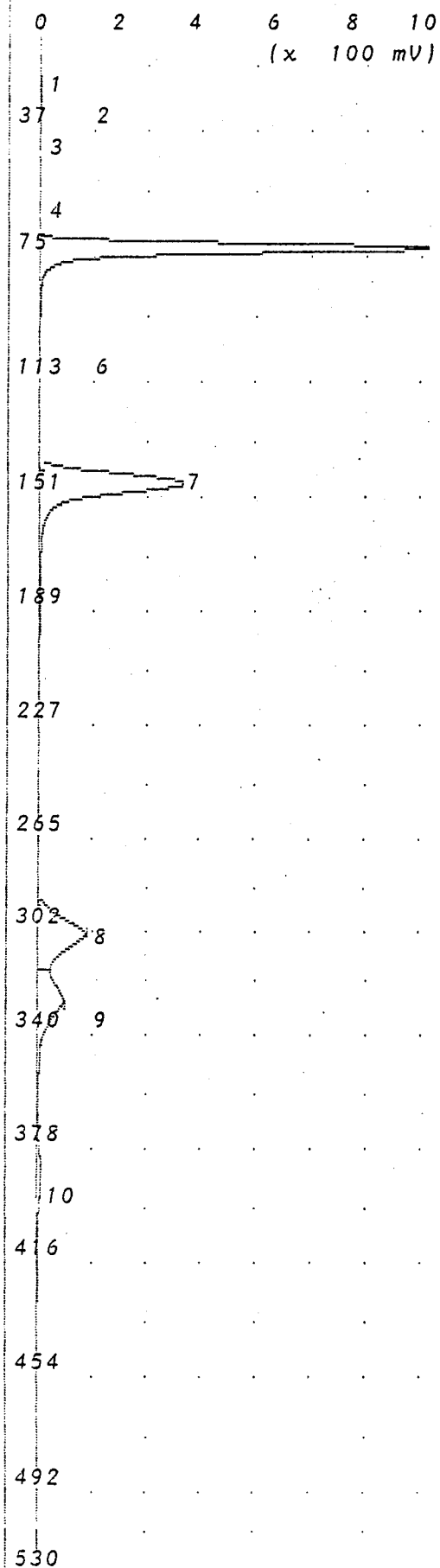
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.097 mVS	19.0
2	Unknown	39.15 mVS	21.2
3	Unknown	58.63 mVS	28.0
4	Unknown	0.165 mVS	45.1
5	Unknown	7.629 mVS	52.1
6	Benzene	4.220 ppm	71.7
7	Unknown	3.798 mVS	107.4
8	Toluene	5.808 ppm	145.4
9	Ethylbenzene	8.134 ppm	304.5
10	MP Xylene	6.751 ppm	327.7
11	O Xylene	5.423 ppm	386.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard

Analysis #3

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 08:59

Sample Time: Nov 1, 94 08:50

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

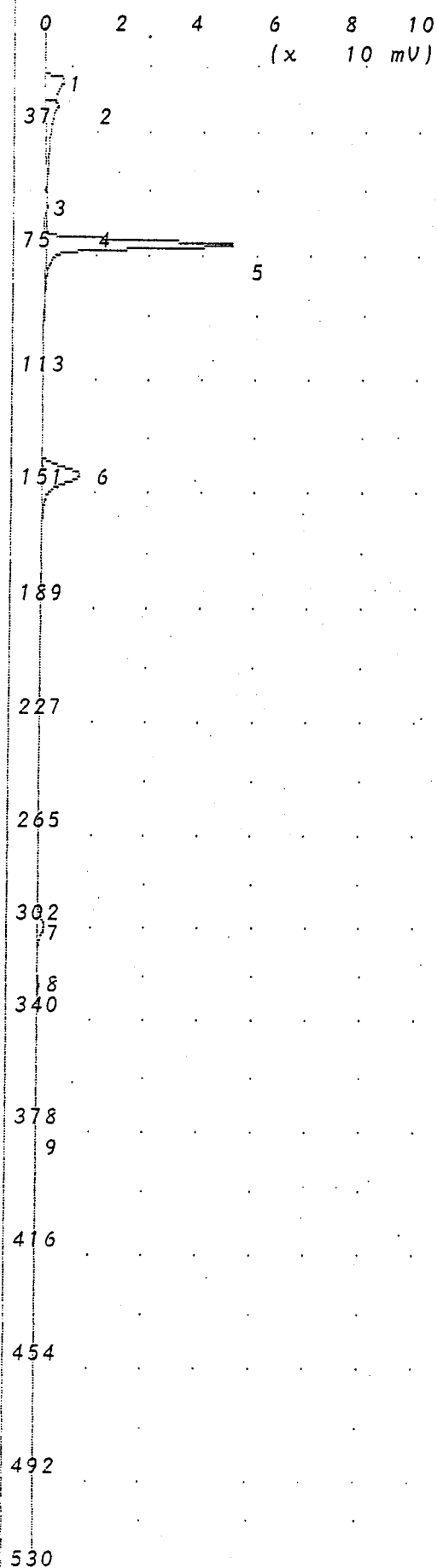
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.468 mVS	19.6
2	Unknown	30.73 mVS	21.1
3	Unknown	40.28 mVS	27.8
4	Unknown	0.225 mVS	54.6
5	Benzene	2.812 ppm	70.6
6	Unknown	0.282 mVS	106.6
7	Toluene	3.862 ppm	145.0
8	Ethylbenzene	4.217 ppm	302.6
9	MP Xylene	5.936 ppm	326.1
10	O Xylene	1.585 ppm	384.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

Analysis #2

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 08:43

Sample Time: Nov 1, 94 08:34

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 29 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

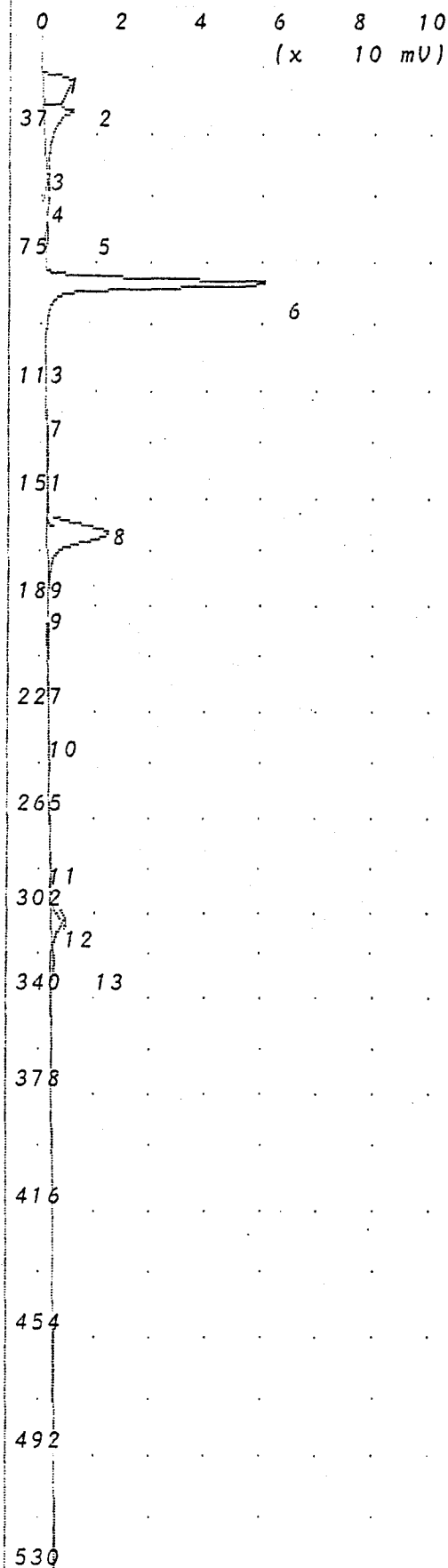
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	35.37 mVS	19.6
2	Unknown	38.82 mVS	27.6
3	Unknown	1.176 mVS	53.9
4	Unknown	0.032 mVS	60.0
5	Unknown	149.4 mVS	69.7
6	Unknown	80.02 mVS	143.6
7	Unknown	45.27 mVS	300.0
8	Unknown	43.42 mVS	324.5
9	Unknown	27.35 mVS	381.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
100 ppb BTEX Standard

Analysis #1

10S+ GC Function Analysis Report



Time Printed: Nov 1, 94 08:15

Sample Time: Nov 1, 94 08:06

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 26 C
 Max Gain 1000
 Analysis Time 530.0 sec

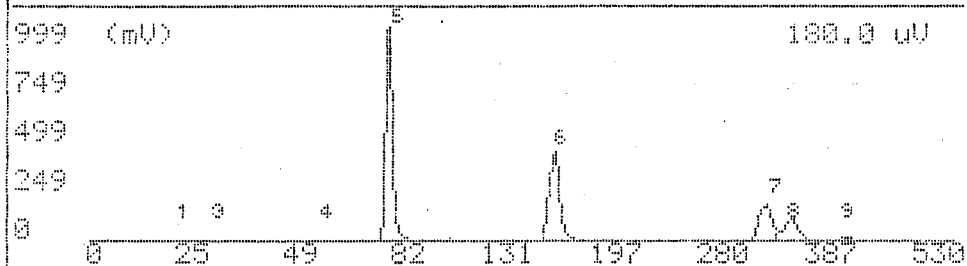
Peak Report

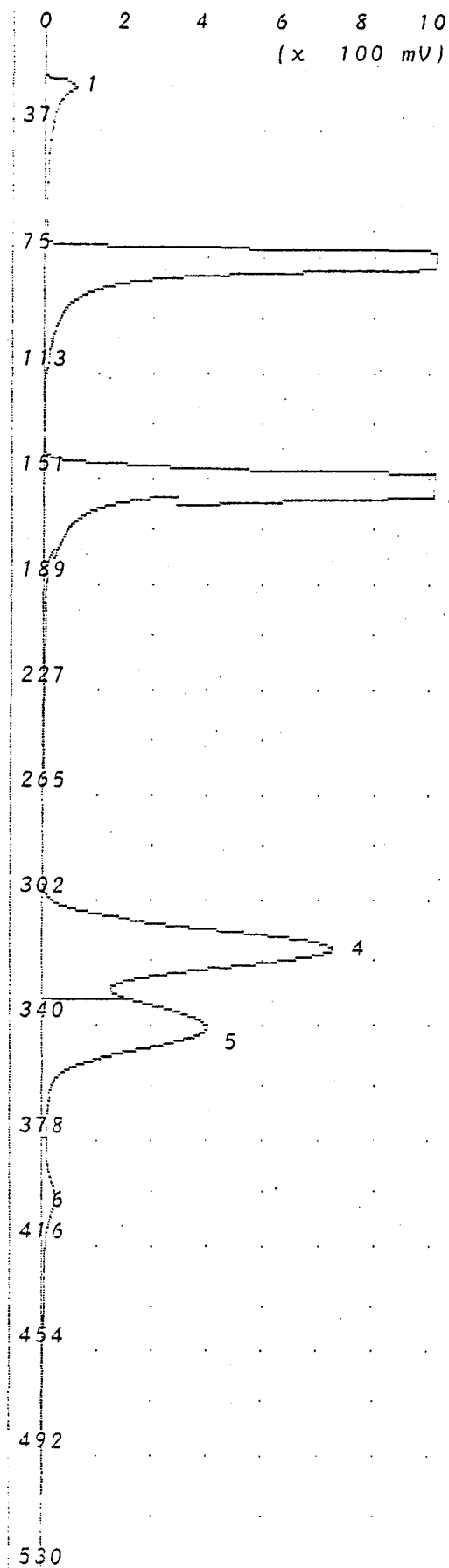
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	59.17 mVS	20.3
2	Unknown	55.19 mVS	28.7
3	Unknown	0.098 mVS	47.6
4	Unknown	0.346 mVS	50.6
5	Unknown	0.082 mVS	54.6
6	Unknown	203.7 mVS	79.4
7	Unknown	14.91 mVS	120.8
8	Unknown	117.9 mVS	162.2
9	Unknown	0.115 mVS	189.8
10	Unknown	2.837 mVS	230.8
11	Unknown	6.042 mVS	281.0
12	Unknown	48.34 mVS	306.1
13	Unknown	46.60 mVS	326.1

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 100 ppb BTEX Standard

G.C. Ready		10S+ GC Function	Nov 1, 94	09:28
-- Analysis No 5		-- Run at --	Nov 1, 94	09:16
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	5.164 mUS	-No-	18.8 sec
2	Unknown	21.42 mUS	-No-	21.3 sec
3	Unknown	27.89 mUS	-No-	27.7 sec
4	Unknown	31.627 mUS	-No-	34.1 sec
5	Benzene	999.9 ppb	-No-	70.6 sec
6	Toluene	999.9 ppb	-No-	145.4 sec
7	Ethylbenzene	1.000 ppm	-No-	304.2 sec
8	MP Xylene	2.031 ppm	-No-	327.7 sec
9	O Xylene	1.021 ppm	-No-	386.0 sec
- Detected 9 peaks.				[535 sec]





Time Printed: Nov 1, 94 15:57

Sample Time: Nov 1, 94 15:48

Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

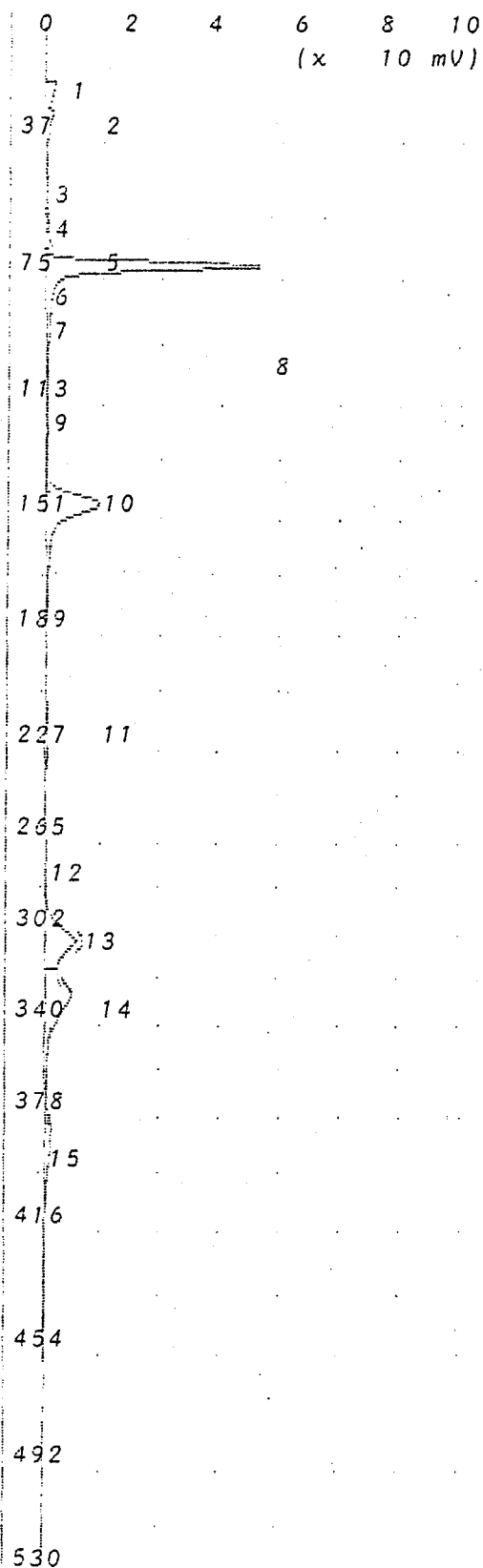
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.089 VSec	22.0
2	Benzene	11.70 ppm	74.0
3	Toluene	10.35 ppm	151.0
4	Ethylbenzene	11.70 ppm	314.9
5	MP Xylene	19.59 ppm	339.0
6	O Xylene	9.066 ppm	398.0

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 10 ppm BTEX Standard

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 2, 94 08:14

Sample Time: Nov 2, 94 08:05

Method

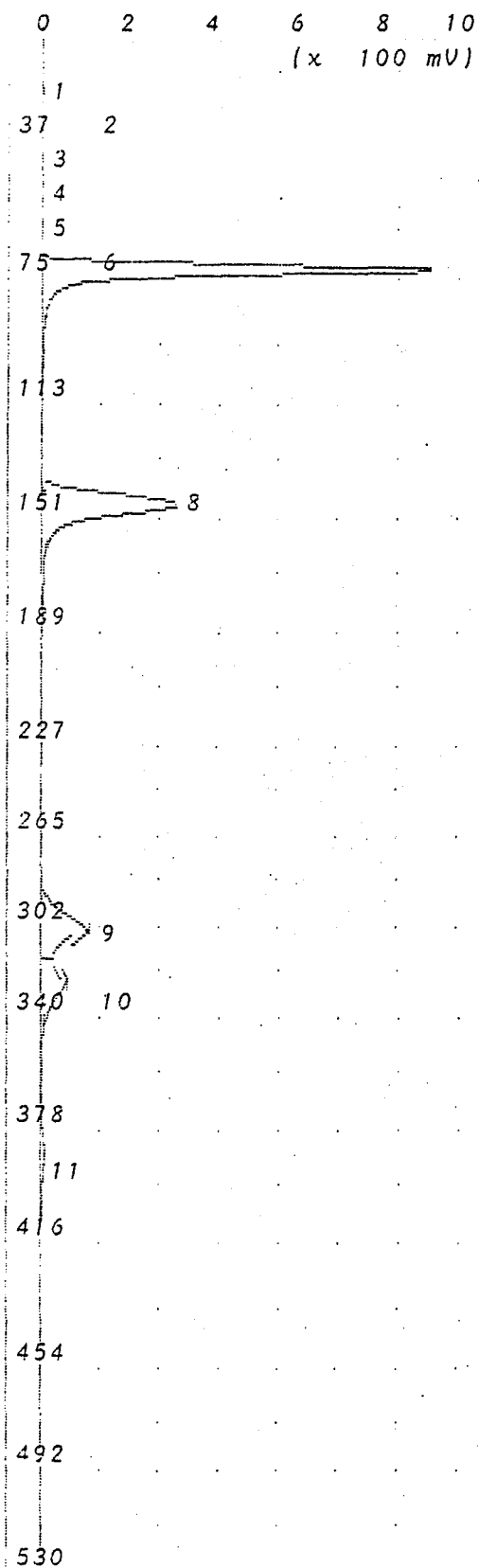
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 28 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	16.92 mVS	18.9
2	Unknown	26.41 mVS	27.1
3	Unknown	0.247 mVS	42.4
4	Unknown	0.401 mVS	44.4
5	Unknown	0.096 mVS	51.5
6	Unknown	0.084 mVS	55.4
7	Unknown	6.444 mVS	60.4
8	Unknown	195.3 mVS	69.4
9	Unknown	0.258 mVS	112.5
10	Unknown	113.6 mVS	144.6
11	Unknown	0.884 mVS	213.8
12	Unknown	4.634 mVS	274.9
13	Unknown	123.3 mVS	305.0
14	Unknown	121.1 mVS	328.0
15	Unknown	41.90 mVS	385.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
100 ppb BTEX Standard



Time Printed: Nov 2,94 08:39

Sample Time: Nov 2,94 08:30

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.880 mVS	19.0
2	Unknown	19.66 mVS	21.1
3	Unknown	18.92 mVS	27.9
4	Unknown	0.025 mVS	43.2
5	Unknown	0.021 mVS	52.1
6	Unknown	0.775 mVS	54.2
7	Benzene	1.859 ppm	70.8
8	Toluene	2.428 ppm	145.0
9	Ethylbenzene	1.424 ppm	302.9
10	MP Xylene	1.991 ppm	326.1
11	O Xylene	956.7 ppb	384.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 2, 94 08:52

Sample Time: Nov 2, 94 08:43

Method

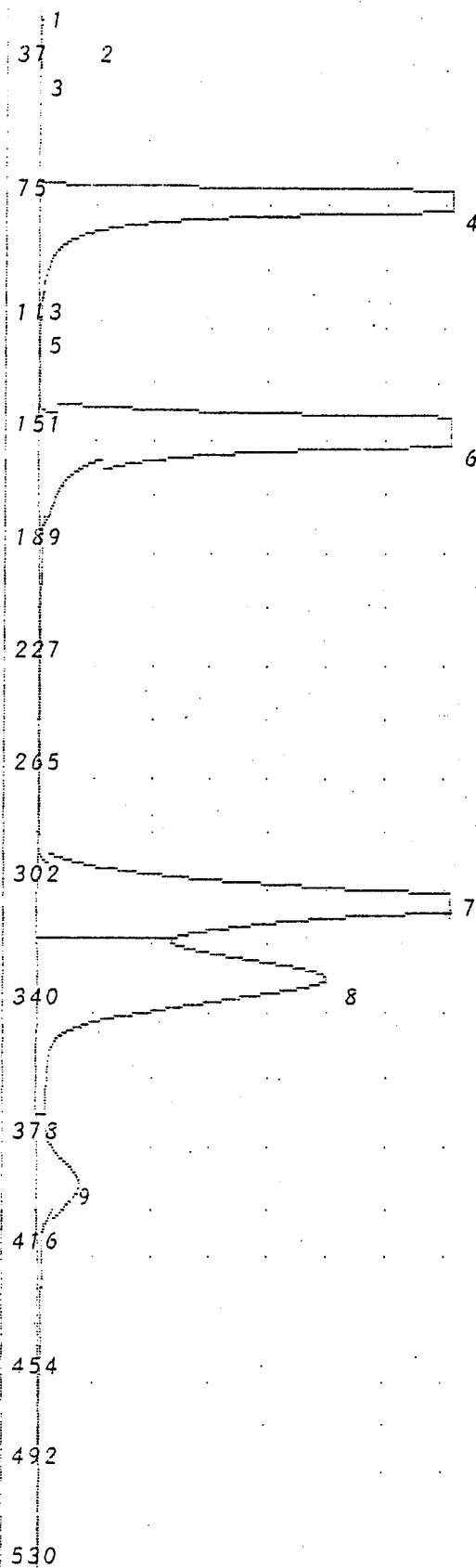
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

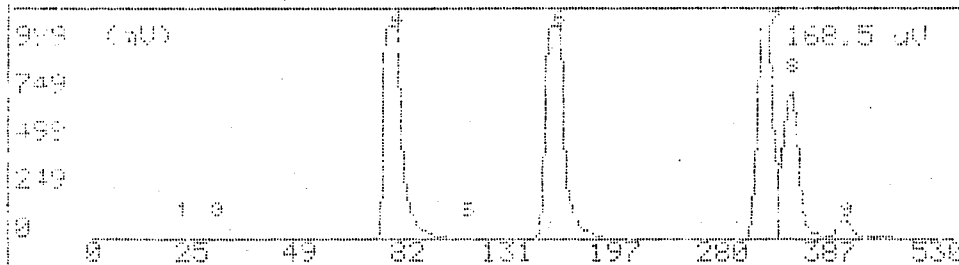
PK	Compound Name	Area/Conc	R.T.
1	Unknown	4.730 mVS	19.0
2	Unknown	38.92 mVS	21.3
3	Unknown	37.79 mVS	28.0
4	Benzene	5.423 ppm	72.1
5	Unknown	3.957 mVS	107.3
6	Toluene	7.294 ppm	146.0
7	Ethylbenzene	11.41 ppm	305.3
8	MP Xylene	20.06 ppm	328.5
9	O Xylene	6.529 ppm	386.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard



P/L ready		1054 15 Function		Nov 2, 94	09:54
Analysis No: 1		Run at: 1054		1054	1054
Peak No	Name	Conc/Wt%	Area	Ret. Time	
1	Unknown	4.734 MUS	-No-	10.1	sec
2	Unknown	88.9 MUS	-No-	21.3	sec
3	Unknown	37.70 MUS	-No-	25.6	sec
4	Benzene	10.34 ppm	-No-	70.1	sec
5	Unknown	3.957 MUS	-No-	103.3	sec
6	Toluene	10.86 ppm	-No-	105.5	sec
7	Ethylbenzene	10.86 ppm	-No-	105.5	sec
8	m-Xylene	20.83 ppm	-No-	105.5	sec
9	p-Xylene	10.85 ppm	-No-	105.5	sec
- Detected 9 peaks.					



0 2 4 6 8 10
 (x 100 mV)

Time Printed: Nov 2, 94 10:21

Sample Time: Nov 2, 94 10:13

Method

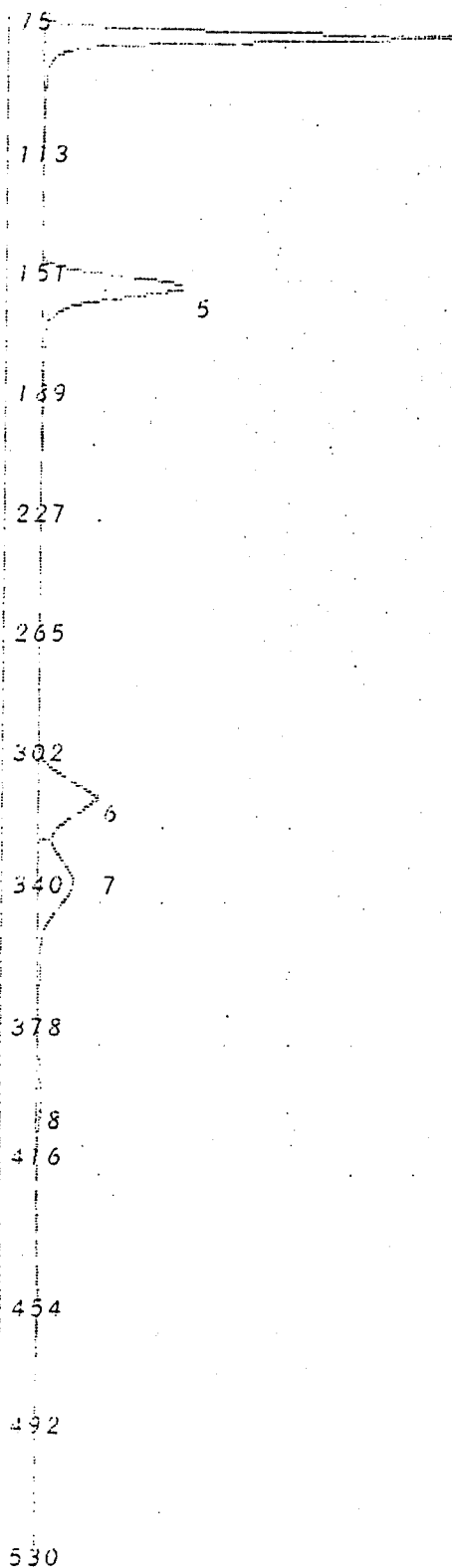
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Ph	Compound Name	Area/Conc	R.T.
1	Unknown	5.387 mVS	19.5
2	Unknown	19.93 mVS	21.6
3	Unknown	19.21 mVS	28.6
4	Benzene	902.1 ppb	72.1
5	Toluene	938.8 ppb	148.2
6	Ethylbenzene	1.091 ppm	309.0
7	MP Xylene	2.324 ppm	332.8
8	O Xylene	894.5 ppb	391.6

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 1 ppm BTEX Standard



DATE	TIME	LOCATION	WIND	TEMP	SEA	REMARKS
10/10/54	0800	1000	1000	1000	1000	1000
10/10/54	0900	1000	1000	1000	1000	1000
10/10/54	1000	1000	1000	1000	1000	1000
10/10/54	1100	1000	1000	1000	1000	1000
10/10/54	1200	1000	1000	1000	1000	1000
10/10/54	1300	1000	1000	1000	1000	1000
10/10/54	1400	1000	1000	1000	1000	1000
10/10/54	1500	1000	1000	1000	1000	1000
10/10/54	1600	1000	1000	1000	1000	1000
10/10/54	1700	1000	1000	1000	1000	1000
10/10/54	1800	1000	1000	1000	1000	1000
10/10/54	1900	1000	1000	1000	1000	1000
10/10/54	2000	1000	1000	1000	1000	1000
10/10/54	2100	1000	1000	1000	1000	1000
10/10/54	2200	1000	1000	1000	1000	1000
10/10/54	2300	1000	1000	1000	1000	1000
10/10/54	2400	1000	1000	1000	1000	1000

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 2.94 11:56

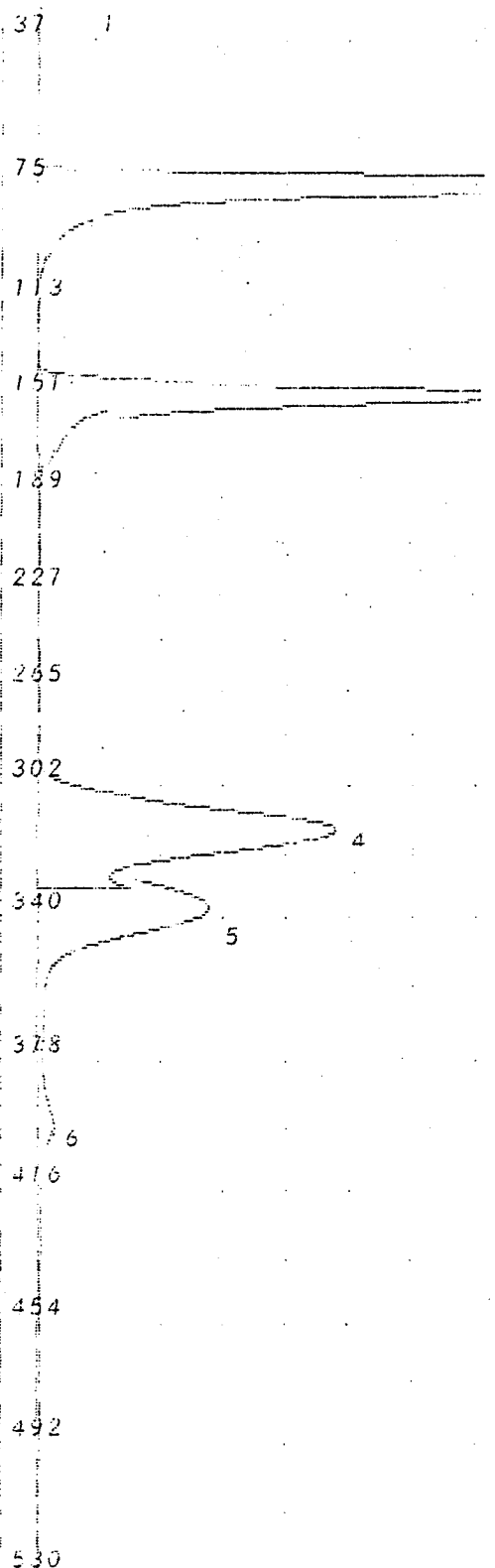
Sample Time: Nov 2.94 11:47

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pr	Compound Name	Area/Conc	R.T.
1	Unknown	186.9 mV	22.2
2	Benzene	5.909 ppm	73.3
3	Toluene	6.533 ppm	149.6
4	Ethylbenzene	5.090 ppm	312.0
5	MP Xylene	10.08 ppm	335.4
6	O Xylene	4.147 ppm	394.3



Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard

Line	Description	Unit	Rate	Amount	Balance
1	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020
2	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020
3	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020
4	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020
5	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020
6	10/1/2020	10/1/2020	10/1/2020	10/1/2020	10/1/2020

[illegible]

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 2, 94 14:58

Sample Time: Nov 2, 94 14:49

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	56.26 mVS	19.6
2	Benzene	983.7 ppb	12.9
3	Toluene	829.2 ppb	149.8
4	Ethylbenzene	786.1 ppb	313.0
5	MP Xylene	1.329 ppm	337.3
6	O Xylene	702.5 ppb	396.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

31

75

113

151

189

227

265

302

340

378

416

454

492

530

Peak	Time	Area	Height	Weight	Conc
1	1.000	1.000	1.000	1.000	1.000
2	1.000	1.000	1.000	1.000	1.000
3	1.000	1.000	1.000	1.000	1.000
4	1.000	1.000	1.000	1.000	1.000
5	1.000	1.000	1.000	1.000	1.000
6	1.000	1.000	1.000	1.000	1.000
7	1.000	1.000	1.000	1.000	1.000
8	1.000	1.000	1.000	1.000	1.000
9	1.000	1.000	1.000	1.000	1.000
10	1.000	1.000	1.000	1.000	1.000
11	1.000	1.000	1.000	1.000	1.000
12	1.000	1.000	1.000	1.000	1.000
13	1.000	1.000	1.000	1.000	1.000
14	1.000	1.000	1.000	1.000	1.000
15	1.000	1.000	1.000	1.000	1.000
16	1.000	1.000	1.000	1.000	1.000
17	1.000	1.000	1.000	1.000	1.000
18	1.000	1.000	1.000	1.000	1.000
19	1.000	1.000	1.000	1.000	1.000
20	1.000	1.000	1.000	1.000	1.000
21	1.000	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000	1.000
26	1.000	1.000	1.000	1.000	1.000
27	1.000	1.000	1.000	1.000	1.000
28	1.000	1.000	1.000	1.000	1.000
29	1.000	1.000	1.000	1.000	1.000
30	1.000	1.000	1.000	1.000	1.000
31	1.000	1.000	1.000	1.000	1.000
32	1.000	1.000	1.000	1.000	1.000
33	1.000	1.000	1.000	1.000	1.000
34	1.000	1.000	1.000	1.000	1.000
35	1.000	1.000	1.000	1.000	1.000
36	1.000	1.000	1.000	1.000	1.000
37	1.000	1.000	1.000	1.000	1.000
38	1.000	1.000	1.000	1.000	1.000
39	1.000	1.000	1.000	1.000	1.000
40	1.000	1.000	1.000	1.000	1.000
41	1.000	1.000	1.000	1.000	1.000
42	1.000	1.000	1.000	1.000	1.000
43	1.000	1.000	1.000	1.000	1.000
44	1.000	1.000	1.000	1.000	1.000
45	1.000	1.000	1.000	1.000	1.000
46	1.000	1.000	1.000	1.000	1.000
47	1.000	1.000	1.000	1.000	1.000
48	1.000	1.000	1.000	1.000	1.000
49	1.000	1.000	1.000	1.000	1.000
50	1.000	1.000	1.000	1.000	1.000
51	1.000	1.000	1.000	1.000	1.000
52	1.000	1.000	1.000	1.000	1.000
53	1.000	1.000	1.000	1.000	1.000
54	1.000	1.000	1.000	1.000	1.000
55	1.000	1.000	1.000	1.000	1.000
56	1.000	1.000	1.000	1.000	1.000
57	1.000	1.000	1.000	1.000	1.000
58	1.000	1.000	1.000	1.000	1.000

0 1 2 3 4 5
(x 10 mV)

Time Printed: Nov 4, 94 11:35

Sample Time: Nov 4, 94 11:26

Method

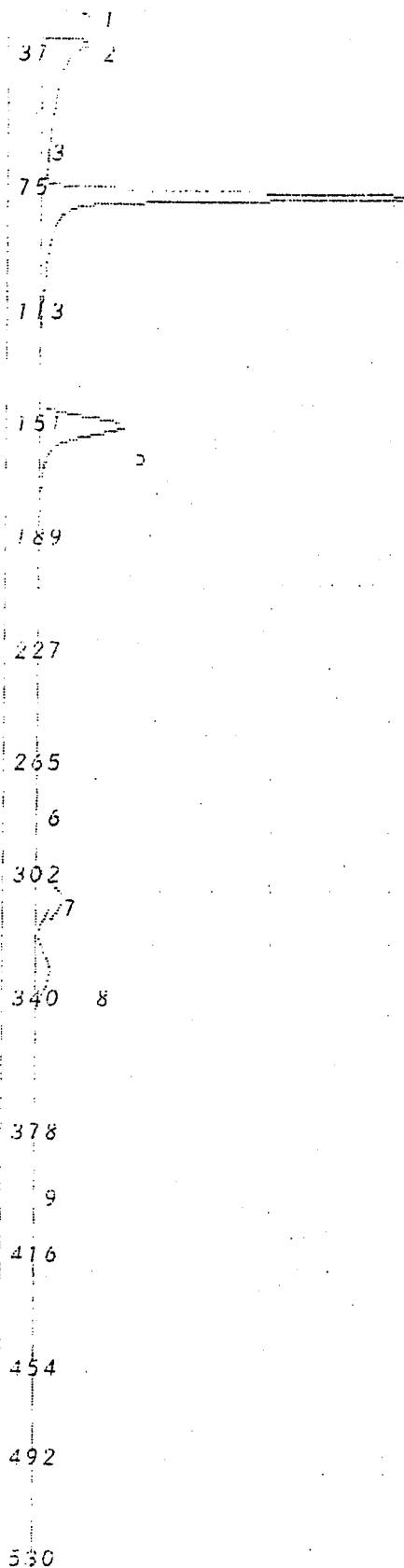
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
S/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 29 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	49.69 mVS	21.4
2	Unknown	90.62 mVS	28.2
3	Unknown	0.574 mVS	54.0
4	Unknown	176.6 mVS	70.8
5	Unknown	85.49 mVS	145.2
6	Unknown	3.136 mVS	270.9
7	Unknown	59.79 mVS	302.9
8	Unknown	56.54 mVS	325.8
9	Unknown	28.09 mVS	383.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard



0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 4.94 11:50

Sample Time: Nov 4.94 11:41

Method

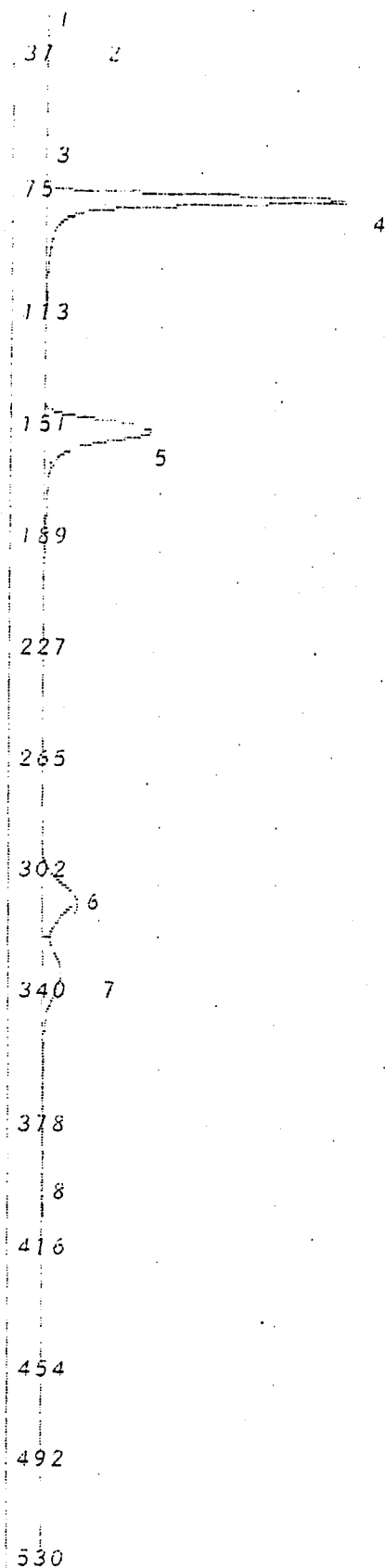
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	59.72 mVS	21.5
2	Unknown	101.3 mVS	28.4
3	Unknown	0.577 mVS	53.9
4	Benzene	1.791 ppm	71.7
5	Toluene	2.837 ppm	146.4
6	Ethylbenzene	2.170 ppm	305.8
7	MP Xylene	3.000 ppm	329.0
8	O Xylene	945.2 ppm	387.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard



0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 4, 94 12:03

Sample Time: Nov 4, 94 11:54

Method

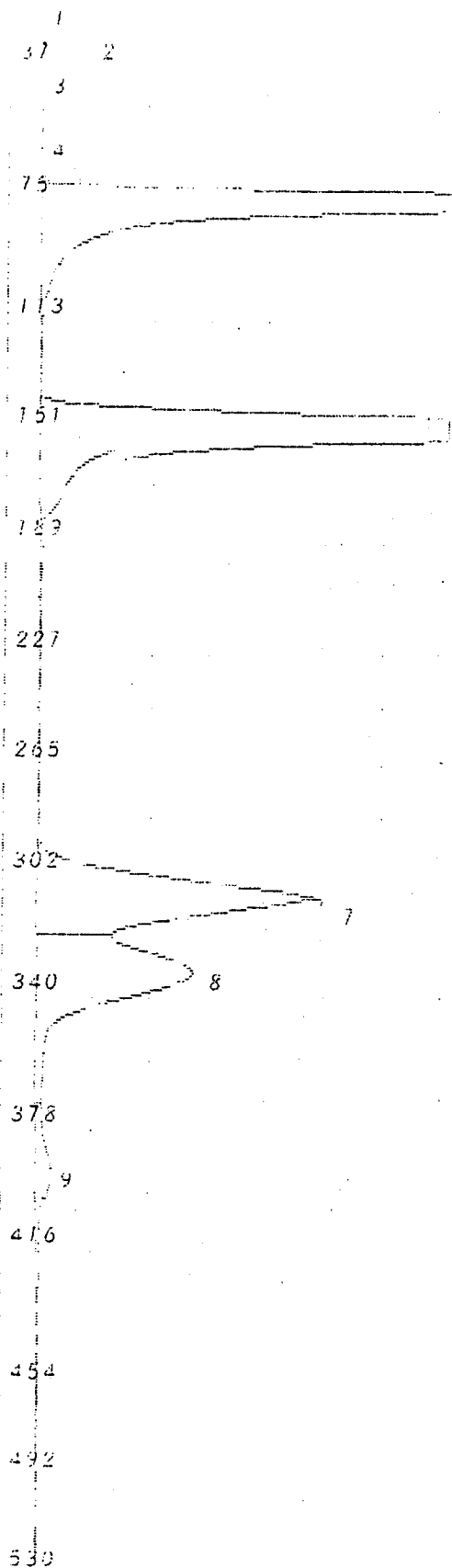
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	4.787 mVS	19.6
2	Unknown	35.77 mVS	21.8
3	Unknown	58.86 mVS	28.8
4	Unknown	7.765 mVS	53.4
5	Benzene	5.940 ppm	73.2
6	Toluene	6.558 ppm	148.2
7	Ethylbenzene	7.786 ppm	308.0
8	MP Xylene	15.30 ppm	331.2
9	O Xylene	4.966 ppm	388.3

Notes

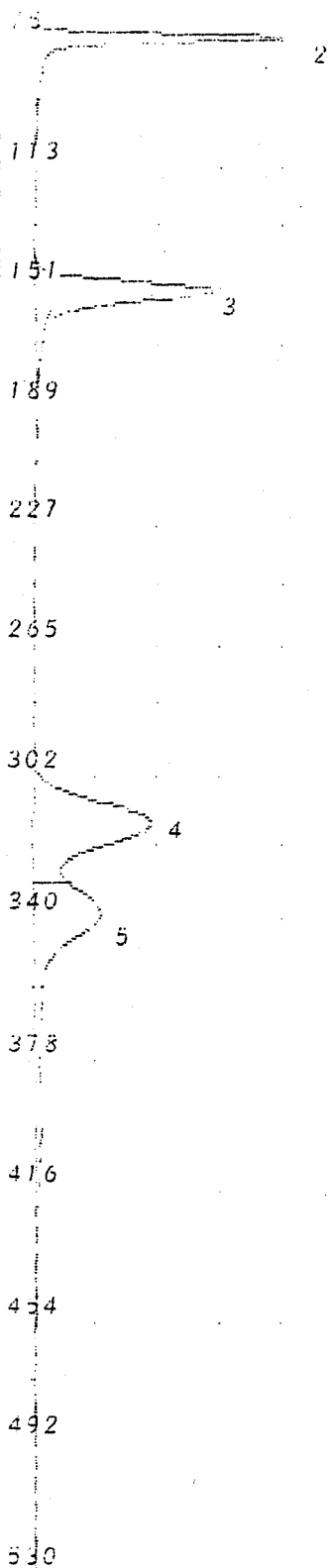
Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard



Date		Time		Location		Remarks	
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1947	11	11:00	11:15	11:30	11:45	12:00	12:15
1947	12	12:00	12:15	12:30	12:45	13:00	13:15
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1947	16	16:00	16:15	16:30	16:45	17:00	17:15
1947	17	17:00	17:15	17:30	17:45	18:00	18:15
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1947	26	26:00	26:15	26:30	26:45	27:00	27:15
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1947	84	84:00	84:15	84:30	84:45	85:00	85:15
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1947	146	146:00	146:15	146:30	146:45	147:00	147:15
1947	147	147:00	147:15	147:30	147:45	148:00	148:15
1947	148	148:00	148:15	148:30	148:45	149:00	149:15
1947	149	149:00	149:15	149:30	149:45	150:00	150:15
1947	150	150:00	150:15	150:30	150:45	151:00	151:15
1947	151	151:00	151:15	151:30	151:45	152:00	152:15
1947	152	152:00	152:15	152:30	152:45	153:00	153:15
1947	153	153:00	153:15	153:30	153:45	154:00	154:15
1947	154	154:00	154:15	154:30	154:45		

Name		Unit Price	Usage	Rate	Time
10	100000	5.204	1000	1000	1000
11	100000	2.551	1000	1000	1000
12	100000	2.000	1000	1000	1000
13	100000	4.570	1000	1000	1000
14	100000	2.361	1000	1000	1000
15	100000	1.027	1000	1000	1000
16	100000	20.17	1000	1000	1000
17	100000	59.26	1000	1000	1000
18	100000	844.7	1000	1000	1000
Total 100000 59.26 1000 1000 1000					
19	100000	1.027	1000	1000	1000
20	100000	2.000	1000	1000	1000
21	100000	4.570	1000	1000	1000
22	100000	2.551	1000	1000	1000
23	100000	5.204	1000	1000	1000
24	100000	1.027	1000	1000	1000
25	100000	2.000	1000	1000	1000
26	100000	4.570	1000	1000	1000
27	100000	2.551	1000	1000	1000
28	100000	5.204	1000	1000	1000
29	100000	1.027	1000	1000	1000
30	100000	2.000	1000	1000	1000
31	100000	4.570	1000	1000	1000
32	100000	2.551	1000	1000	1000
33	100000	5.204	1000	1000	1000
34	100000	1.027	1000	1000	1000
35	100000	2.000	1000	1000	1000
36	100000	4.570	1000	1000	1000
37	100000	2.551	1000	1000	1000
38	100000	5.204	1000	1000	1000
39	100000	1.027	1000	1000	1000
40	100000	2.000	1000	1000	1000
41	100000	4.570	1000	1000	1000
42	100000	2.551	1000	1000	1000
43	100000	5.204	1000	1000	1000
44	100000	1.027	1000	1000	1000
45	100000	2.000	1000	1000	1000
46	100000	4.570	1000	1000	1000
47	100000	2.551	1000	1000	1000
48	100000	5.204	1000	1000	1000
49	100000	1.027	1000	1000	1000
50	100000	2.000	1000	1000	1000
51	100000	4.570	1000	1000	1000
52	100000	2.551	1000	1000	1000
53	100000	5.204	1000	1000	1000
54	100000	1.027	1000	1000	1000
55	100000	2.000	1000	1000	1000
56	100000	4.570	1000	1000	1000
57	100000	2.551	1000	1000	1000
58	100000	5.204	1000	1000	1000
59	100000	1.027	1000	1000	1000
60	100000	2.000	1000	1000	1000
61	100000	4.570	1000	1000	1000
62	100000	2.551	1000	1000	1000
63	100000	5.204	1000	1000	1000
64	100000	1.027	1000	1000	1000
65	100000	2.000	1000	1000	1000
66	100000	4.570	1000	1000	1000
67	100000	2.551	1000	1000	1000
68	100000	5.204	1000	1000	1000
69	100000	1.027	1000	1000	1000
70	100000	2.000	1000	1000	1000
71	100000	4.570	1000	1000	1000
72	100000	2.551	1000	1000	1000
73	100000	5.204	1000	1000	1000
74	100000	1.027	1000	1000	1000
75	100000	2.000	1000	1000	1000
76	100000	4.570	1000	1000	1000
77	100000	2.551	1000	1000	1000
78	100000	5.204	1000	1000	1000
79	100000	1.027	1000	1000	1000
80	100000	2.000	1000	1000	1000
81	100000	4.570	1000	1000	1000
82	100000	2.551	1000	1000	1000
83	100000	5.204	1000	1000	1000
84	100000	1.027	1000	1000	1000
85	100000	2.000	1000	1000	1000
86	100000	4.570	1000	1000	1000
87	100000	2.551	1000	1000	1000
88	100000	5.204	1000	1000	1000
89	100000	1.027	1000	1000	1000
90	100000	2.000	1000	1000	1000
91	100000	4.570	1000	1000	1000
92	100000	2.551	1000	1000	1000
93	100000	5.204	1000	1000	1000
94	100000	1.027	1000	1000	1000
95	100000	2.000	1000	1000	1000
96	100000	4.570	1000	1000	1000
97	100000	2.551	1000	1000	1000
98	100000	5.204	1000	1000	1000
99	100000	1.027	1000	1000	1000
100	100000	2.000	1000	1000	1000

37



2.000 mV/sec
 Slope Down 2.000 mV/Sec
 Min Area 2.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 S/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	33.28 mVS	20.4
2	Benzene	101.0 ppb	73.3
3	Toluene	184.7 ppb	150.0
4	Ethylbenzene	352.8 ppb	313.0
5	mP Xylene	892.1 ppb	337.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard

0 1 2 3 4 5
(x 10 mV)

Time Printed: Nov 3, 94 13:48

Sample Time: Nov 3, 94 13:39

Method

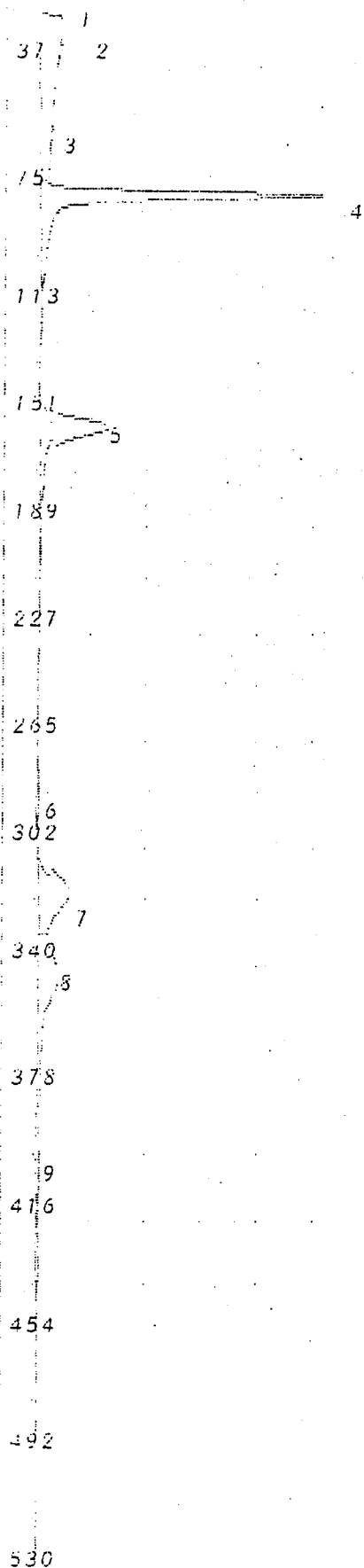
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	103.2 mVS	20.3
2	Unknown	0.422 mVS	29.4
3	Unknown	1.708 mVS	55.1
4	Benzene	99.38 ppb	73.6
5	Toluene	73.18 ppb	151.4
6	Unknown	0.843 mVS	279.7
7	Ethylbenzene	33.40 ppb	316.5
8	MP Xylene	71.74 ppb	341.0
9	O Xylene	2.895 ppb	400.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard



0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 3, 94 12:23

Sample Time: Nov 3, 94 12:14

Method

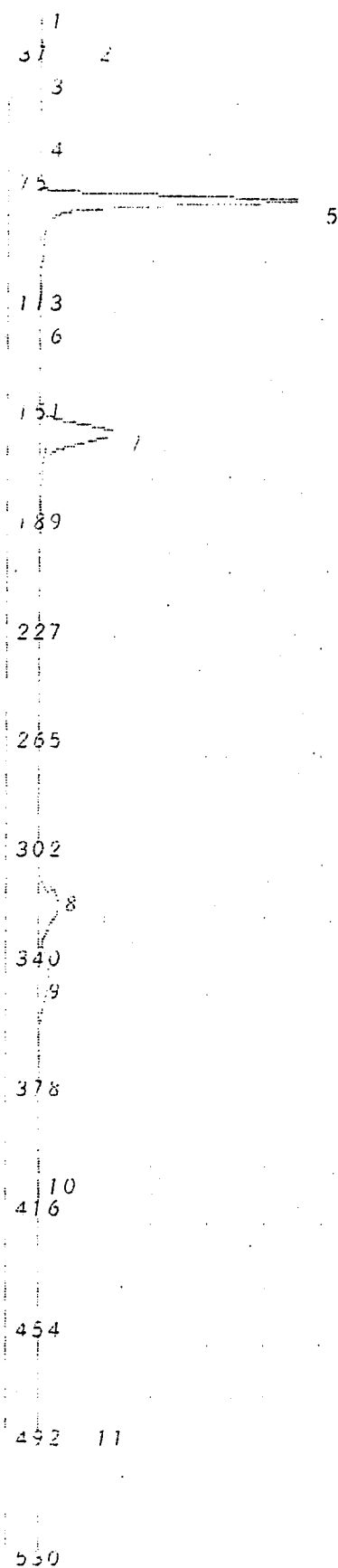
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	9.559 mVS	20.0
2	Unknown	29.78 mVS	22.4
3	Unknown	61.26 mVS	29.5
4	Unknown	22.46 mVS	54.7
5	Benzene	2.007 ppm	73.7
6	Unknown	0.465 mVS	115.2
7	Toluene	1.568 ppm	150.2
8	Ethylbenzene	1.154 ppm	314.6
9	MP Xylene	838.2 ppb	339.0
10	O Xylene	320.6 ppb	398.0
11	Unknown	0.176 mVS	482.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard



0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 3.94 12:09

Sample Time: Nov 3.94 12:00

Method

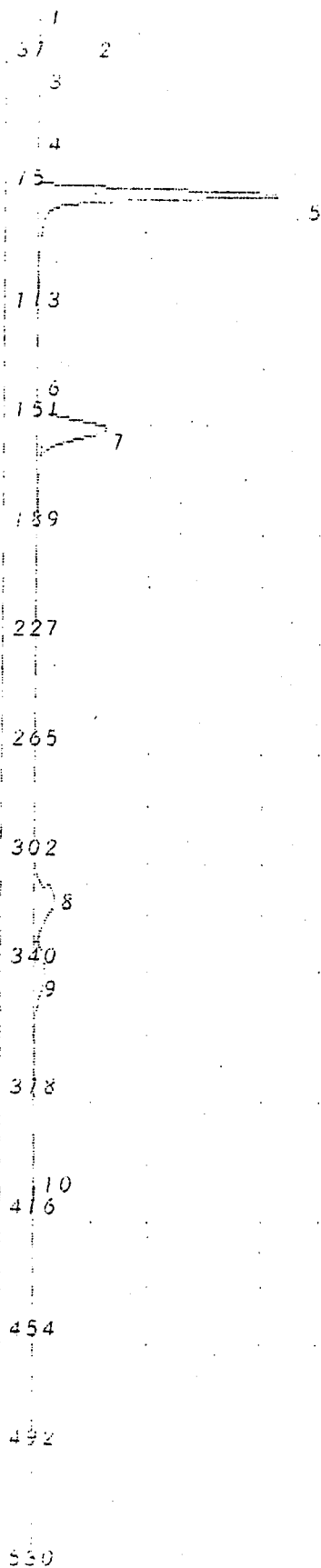
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVsec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pl	Compound Name	Area/Conc	R.T.
1	Unknown	9.525 mVS	19.7
2	Unknown	29.69 mVS	21.9
3	Unknown	61.28 mVS	29.1
4	Unknown	21.68 mVS	54.4
5	Benzene	1.925 ppm	73.3
6	Unknown	0.215 mVS	133.4
7	Toluene	1.528 ppm	150.2
8	Ethylbenzene	1.149 ppm	314.1
9	MP Xylene	845.0 ppb	338.0
10	O Xylene	358.9 ppb	397.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard



TEST RESULTS				
ITEM	DESCRIPTION	UNIT	TEST	RESULT
1	AC Power	41.75 AMP	NO	15.7 sec
2	AC Power	41.75 AMP	NO	15.7 sec
3	AC Power	41.75 AMP	NO	15.7 sec
4	AC Power	41.75 AMP	NO	15.7 sec
5	AC Power	41.75 AMP	NO	15.7 sec
6	AC Power	41.75 AMP	NO	15.7 sec
7	AC Power	41.75 AMP	NO	15.7 sec
8	AC Power	41.75 AMP	NO	15.7 sec
9	AC Power	41.75 AMP	NO	15.7 sec
10	AC Power	41.75 AMP	NO	15.7 sec
11	AC Power	41.75 AMP	NO	15.7 sec
Revised 11/28/51 See 112 to scroll 1 515 sec				
Delete 1000 4151				
12	AC Power	41.75 AMP	NO	15.7 sec
13	AC Power	41.75 AMP	NO	15.7 sec
14	AC Power	41.75 AMP	NO	15.7 sec
15	AC Power	41.75 AMP	NO	15.7 sec
16	AC Power	41.75 AMP	NO	15.7 sec
17	AC Power	41.75 AMP	NO	15.7 sec
18	AC Power	41.75 AMP	NO	15.7 sec
19	AC Power	41.75 AMP	NO	15.7 sec
20	AC Power	41.75 AMP	NO	15.7 sec
21	AC Power	41.75 AMP	NO	15.7 sec
22	AC Power	41.75 AMP	NO	15.7 sec
23	AC Power	41.75 AMP	NO	15.7 sec
24	AC Power	41.75 AMP	NO	15.7 sec
25	AC Power	41.75 AMP	NO	15.7 sec
26	AC Power	41.75 AMP	NO	15.7 sec
27	AC Power	41.75 AMP	NO	15.7 sec
28	AC Power	41.75 AMP	NO	15.7 sec
29	AC Power	41.75 AMP	NO	15.7 sec
30	AC Power	41.75 AMP	NO	15.7 sec
31	AC Power	41.75 AMP	NO	15.7 sec
32	AC Power	41.75 AMP	NO	15.7 sec
33	AC Power	41.75 AMP	NO	15.7 sec
34	AC Power	41.75 AMP	NO	15.7 sec
35	AC Power	41.75 AMP	NO	15.7 sec
36	AC Power	41.75 AMP	NO	15.7 sec
37	AC Power	41.75 AMP	NO	15.7 sec
38	AC Power	41.75 AMP	NO	15.7 sec
39	AC Power	41.75 AMP	NO	15.7 sec
40	AC Power	41.75 AMP	NO	15.7 sec
41	AC Power	41.75 AMP	NO	15.7 sec
42	AC Power	41.75 AMP	NO	15.7 sec
43	AC Power	41.75 AMP	NO	15.7 sec
44	AC Power	41.75 AMP	NO	15.7 sec
45	AC Power	41.75 AMP	NO	15.7 sec
46	AC Power	41.75 AMP	NO	15.7 sec
47	AC Power	41.75 AMP	NO	15.7 sec
48	AC Power	41.75 AMP	NO	15.7 sec
49	AC Power	41.75 AMP	NO	15.7 sec
50	AC Power	41.75 AMP	NO	15.7 sec

0 2 4 6 8 10
IN 100 mV

Time Printed: Nov 3, 94 08:20

Sample Time: Nov 3, 94 08:11

Method

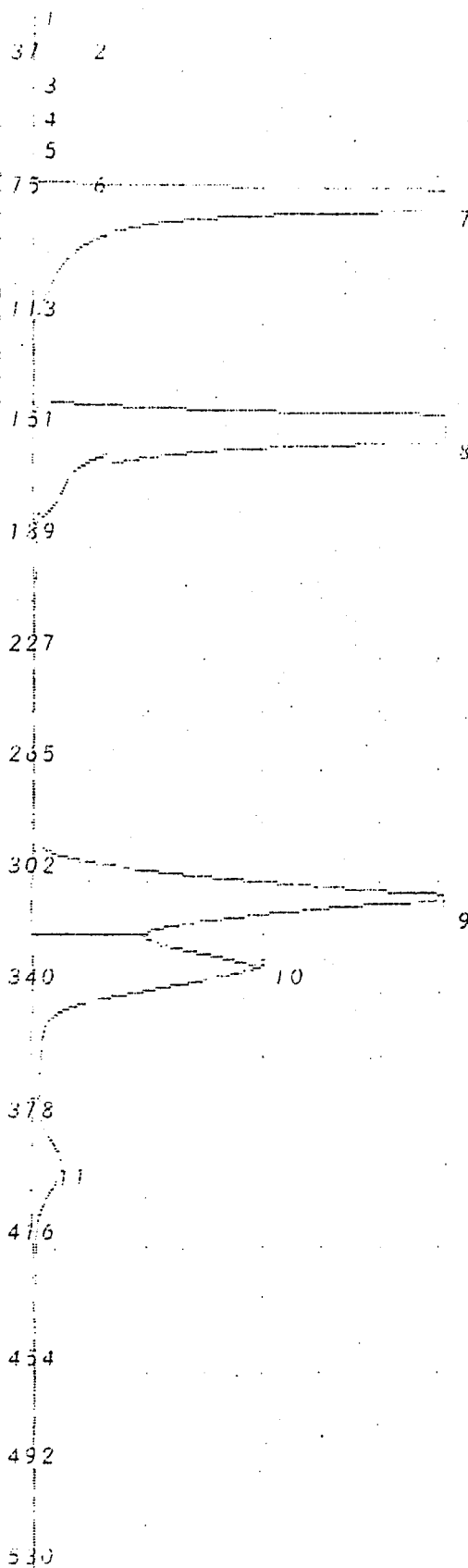
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	0.077 mVS	16.8
2	Unknown	4.006 mVS	19.4
3	Unknown	35.69 mVS	21.6
4	Unknown	55.09 mVS	28.3
5	Unknown	6.249 mVS	53.8
6	Unknown	1.360 mVS	61.8
7	Benzene	6.147 ppm	72.6
8	Toluene	7.458 ppm	147.0
9	Ethylbenzene	9.711 ppm	306.4
10	MP Xylene	17.71 ppm	329.6
11	O Xylene	5.333 ppm	387.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard



0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 3, 94 08:07

Sample Time: Nov 3, 94 07:58

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 20.0 %

Det Flow 12 mL/min

S/F Flow 12 mL/min

Aux Flow 0 mL/min

Oven Temp 40 C

Amb Temp 29 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	4.201 mVS	19.2
2	Unknown	15.07 mVS	21.2
3	Unknown	14.59 mVS	27.8
4	Unknown	0.018 mVS	43.4
5	Unknown	0.008 mVS	52.4
6	Unknown	0.984 mVS	54.4
7	Benzene	1.760 ppm	70.8
8	Toluene	2.330 ppm	145.2
9	Ethylbenzene	1.723 ppm	303.2
10	MP Xylene	2.473 ppm	326.4
11	O Xylene	1.213 ppm	384.3

Notes

Billy Mitchell Air National

Guard Base

Mark Escobar

1 ppm BTEX Standard

15

113

151

149

227

265

302

340

378

416

454

492

530

Analysis #1 10S+ GC Function Analysis Report

0 2 4 6 8 10 Time Printed: Nov 3, 94 07:50
 (x 10 mV) Sample Time: Nov 3, 94 07:41

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 20.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 27 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

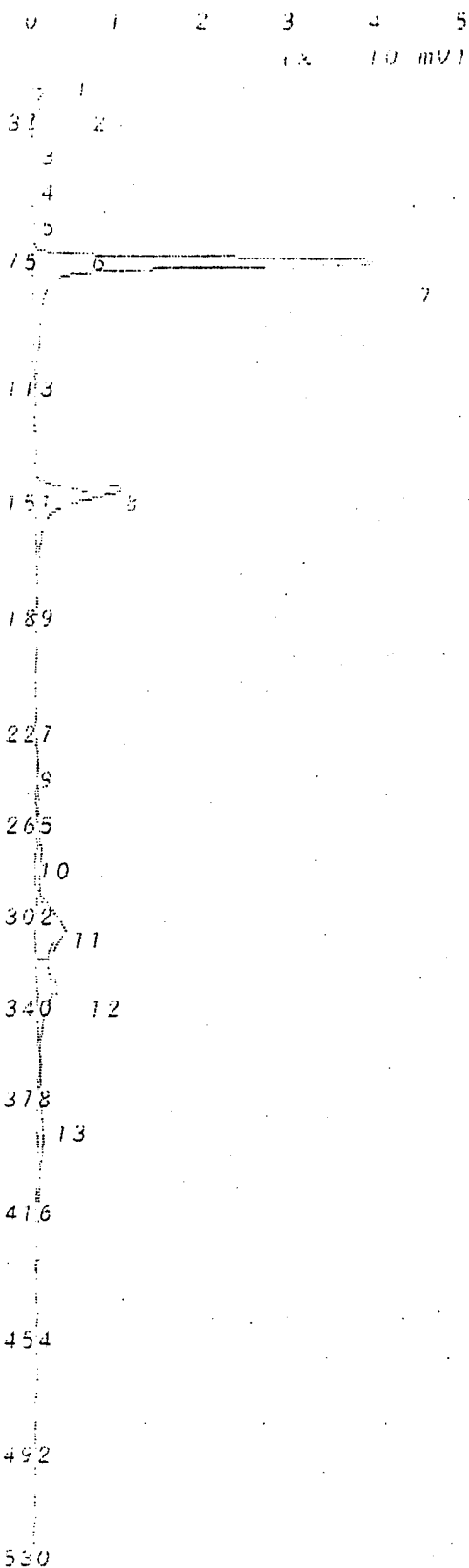
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	11.30 mVS	18.7
2	Unknown	10.81 mVS	26.4
3	Unknown	3.857 mVS	43.3
4	Unknown	1.029 mVS	50.3
5	Unknown	2.537 mVS	59.3
6	Unknown	190.4 mVS	67.2
7	Unknown	0.387 mVS	108.4
8	Unknown	110.1 mVS	138.4
9	Unknown	0.798 mVS	267.7
10	Unknown	93.55 mVS	297.8
11	Unknown	87.83 mVS	321.8
12	Unknown	29.67 mVS	382.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard

530

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 7, 94 13:56
 Sample Time: Nov 7, 94 13:47
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 27 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
PK	Compound Name	Area/Conc	R.T.
1	Unknown	5.016 mVS	19.0
2	Unknown	8.558 mVS	21.2
3	Unknown	7.292 mVS	27.6
4	Unknown	0.366 mVS	44.2
5	Unknown	0.080 mVS	50.2
6	Unknown	5.154 mVS	55.2
7	Unknown	168.6 mVS	68.5
8	Unknown	84.88 mVS	140.4
9	Unknown	3.354 mVS	232.6
10	Unknown	12.65 mVS	268.8
11	Unknown	59.00 mVS	300.8
12	Unknown	48.74 mVS	324.8
13	Unknown	18.44 mVS	377.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard

0 2 4 6 8 10
 (x 100 mV)

Time Printed: Nov 7, 94 14:11

Sample Time: Nov 7, 94 14:02

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 mL/min
 B/F Flow 12 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 29 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	6.172 mVS	19.0
2	Unknown	23.23 mVS	21.4
3	Unknown	41.77 mVS	27.5
4	Unknown	0.127 mVS	45.8
5	Unknown	18.09 mVS	55.8
6	Benzene	1.540 ppm	70.8
7	Unknown	0.954 mVS	115.8
8	Toluene	2.443 ppm	142.9
9	Ethylbenzene	2.033 ppm	300.5
10	MP Xylene	3.203 ppm	323.7
11	O Xylene	1.695 ppm	380.6

Notes

Billy Mitchell Air National
 Guard Base

Mark Escobar

~~100 ppm~~ BTEX Standard

1 ppm

(ME)

Analysis #3 10S+ GC Function Analysis Report

0 2 4 6 8 10
ix 100 mV

Time Printed: Nov 7, 94 14:25

Sample Time: Nov 7, 94 14:16

Method

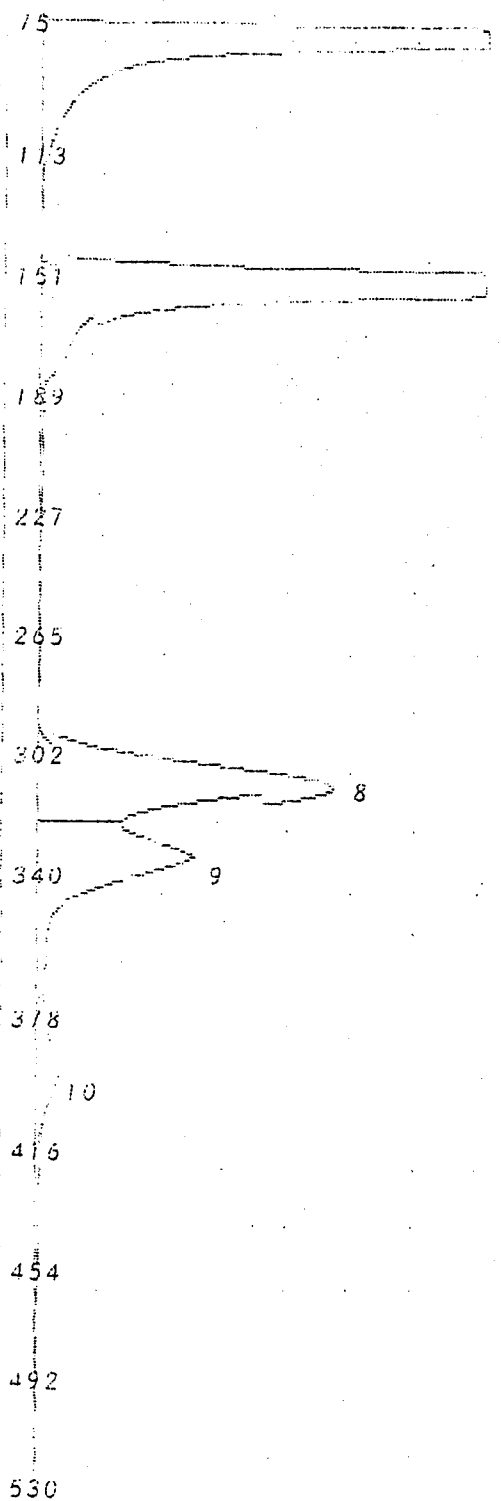
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 30 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

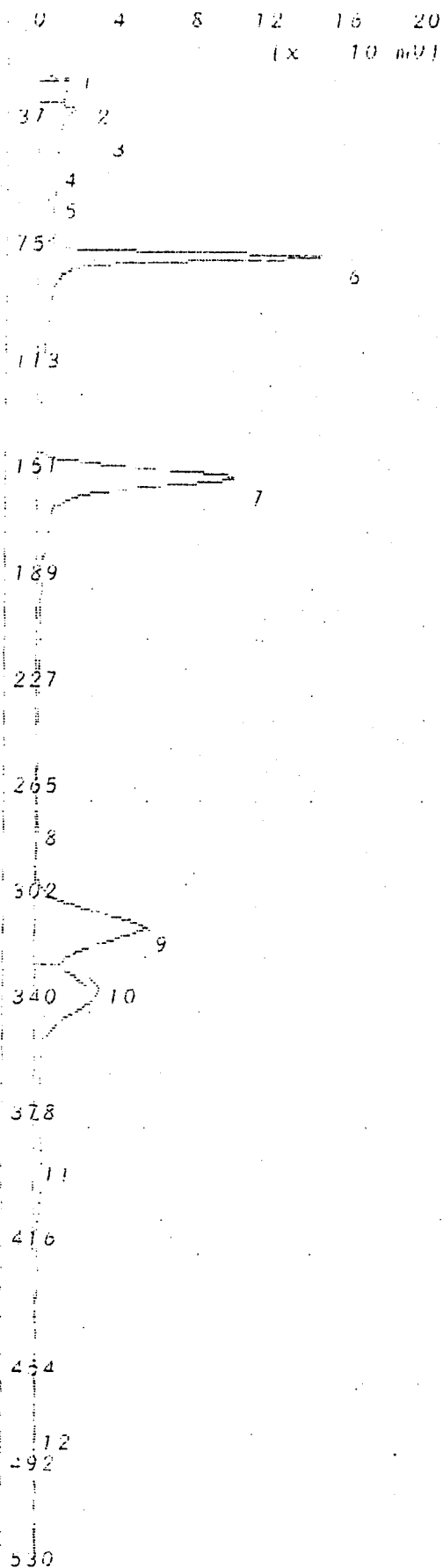
PK	Compound Name	Area/Conc	R.T.
1	Unknown	5.875 mVS	19.1
2	Unknown	46.97 mVS	21.5
3	Unknown	82.70 mVS	28.2
4	Unknown	0.441 mVS	45.6
5	Unknown	19.58 mVS	54.6
6	Benzene	6.505 ppm	72.1
7	Toluene	7.296 ppm	145.8
8	Ethylbenzene	8.218 ppm	304.0
9	MP Xylene	16.21 ppm	327.2
10	O Xylene	5.016 ppm	384.3

Notes

Billu Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard



Analysis #10 10S+ GC Function Analysis Report



Time Printed: Nov 7, 94 15:49
 Sample Time: Nov 7, 94 15:40
 Method
 Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report			
PK	Compound Name	Area/Conc	R.T.
1	Unknown	26.66 mVS	20.0
2	Unknown	91.40 mVS	21.5
3	Unknown	412.6 mVS	28.7
4	Unknown	0.288 mVS	46.6
5	Unknown	10.90 mVS	54.1
6	Benzene	322.5 ppb	72.1
7	Toluene	522.3 ppb	147.6
8	Unknown	2.722 mVS	270.6
9	Ethylbenzene	734.3 ppb	308.2
10	MP Xylene	1.609 ppm	331.7
11	O Xylene	618.9 ppb	390.0
12	Unknown	0.305 mVS	467.6

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report

0 2 4 6 8 10
 (x 10 mV)

Time Printed: Nov 8.94 09:35

Sample Time: Nov 8.94 04:26

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 29 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	86.76 mVS	19.6
2	Unknown	1.148 mVS	28.9
3	Unknown	1.985 mVS	54.2
4	Unknown	352.8 mVS	72.0
5	Unknown	529.0 mVS	146.4
6	Unknown	491.6 mVS	304.2
7	Unknown	379.4 mVS	327.4
8	Unknown	141.2 mVS	384.0

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 100 ppb BTEX Standard

31 2

13

15

113

151

189

227

265

302

340

378

8

416

454

492

530

0 2 4 6 8 10

Time Printed: Nov 8, 94 10:02

100 mV

Sample Time: Nov 8, 94 09:53

Method

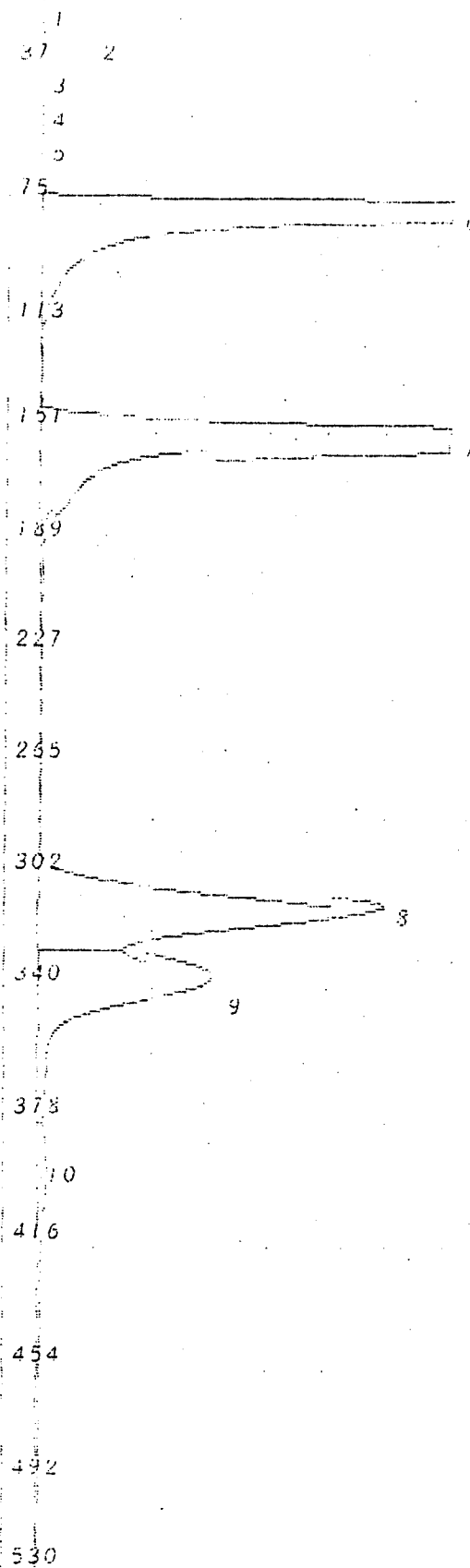
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 31 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	6.442 mVS	21.1
2	Unknown	46.65 mVS	23.2
3	Unknown	73.18 mVS	30.1
4	Unknown	0.207 mVS	48.7
5	Unknown	14.50 mVS	55.8
6	Benzene	7.255 ppm	75.2
7	Toluene	3.580 ppm	150.8
8	EthylBenzene	8.890 ppm	311.7
9	MP Xylene	16.17 ppm	334.6
10	O Xylene	5.081 ppm	390.6

Notes

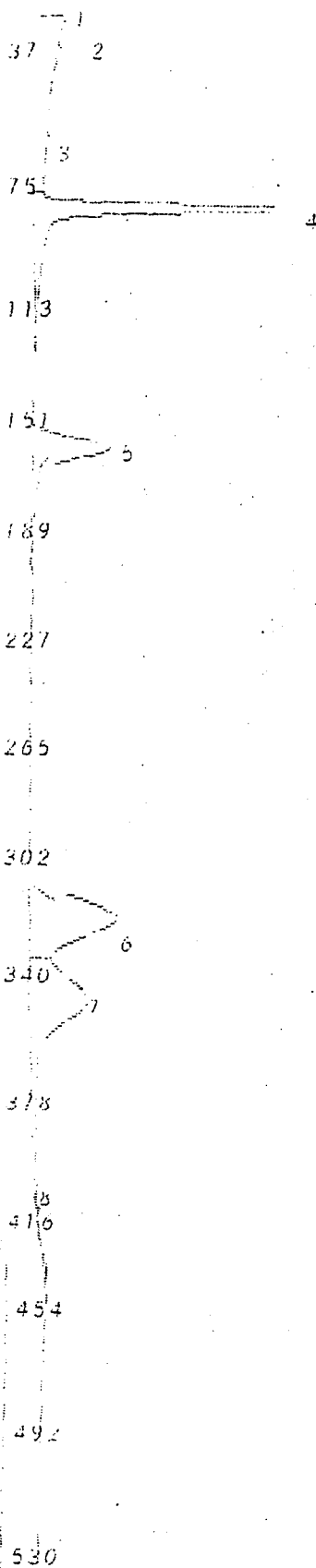
Billy Mitchell Air National
 Guard Base
 Mark Escobar
 10 ppm BTEX Standard



[illegible]

Analysis #1 105+ GC Function Analysis Report

0 1 2 3 4 5 Time Printed: Nov 9, 94 11:52
 (x 10 mV) Sample Time: Nov 9, 94 11:43



Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 mL/min
 B/F Flow 10 mL/min
 Aux Flow 0 mL/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	126.1 mVS	20.5
2	Unknown	1.036 mVS	30.3
3	Unknown	1.997 mVS	54.4
4	Unknown	124.9 mVS	74.8
5	Unknown	76.69 mVS	152.2
6	Unknown	151.9 mVS	316.5
7	Unknown	149.1 mVS	340.6
8	Unknown	0.772 mVS	397.3

Notes

Billy Mitchell Air National
 Guard Base
 Maria Escobar
 100 ppb BTEX Standard

$(x = 100 \text{ mV})$

Sample Time: Nov 9, 94 11:58

Method

Slope Down 1.500 mV/Sec

MIN HEIGHT 0.000 mV

Window Percent 10.0 %

B/F Flow 10 ml/min

Aux Flow: 0 ml/min

Oven Temp 40 C

Amb Temp 33 C

Max Gain	1000
Min Gain	500

Analysis Time 530.0 sec

Pearl Report.

PK	Compound Name	Area/Conc	R.T.
1	Unknown	4.501 mVS	20.8
2	Unknown	26.55 mVS	23.1
3	Unknown	63.01 mVS	30.3
4	Unknown	29.33 mVS	56.2
5	Benzene	1.968 ppm	75.4
6	Toluene	2.528 ppm	151.4
7	Ethylbenzene	720.3 ppb	317.3
8	MP Xylene	1.093 ppm	341.0
9	O Xylene	458.7 ppb	397.0

Billy Mitchell ^{Nile} Air National

Guana Base

1 ppm STX STD

84675324

605+100 mod

0604 m 2 s 48

Pr. ~~XXXXXXXXXX~~ TENDR Re53000 SEC^m 210

Analysis #3 10S GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)

Time Printed: Nov 9, 94 12:23

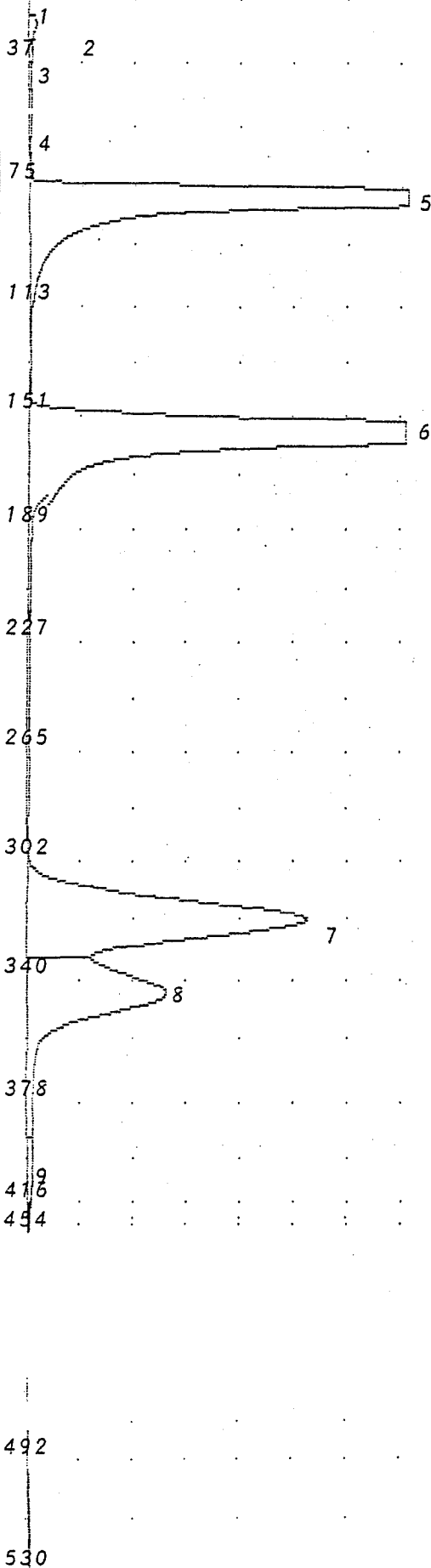
Sample Time: Nov 9, 94 12:10

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	28.29 mVS	21.1
2	Unknown	129.2 mVS	23.0
3	Unknown	282.6 mVS	30.4
4	Unknown	1.501 mVS	54.0
5	Benzene	7.454 ppm	76.5
6	Toluene	9.266 ppm	154.2
7	Ethylbenzene	10.40 ppm	318.9
8	MP Xylene	17.15 ppm	342.3
9	O Xylene	204.0 PPM1	398.3

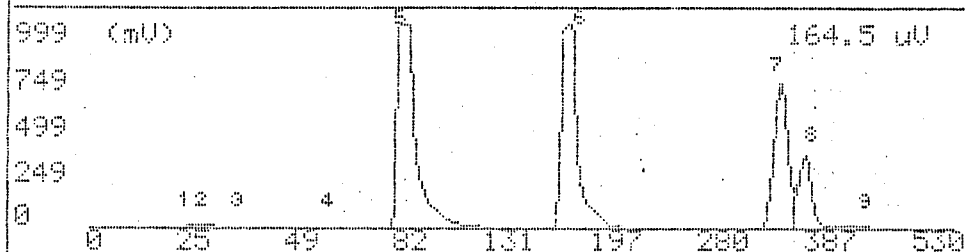


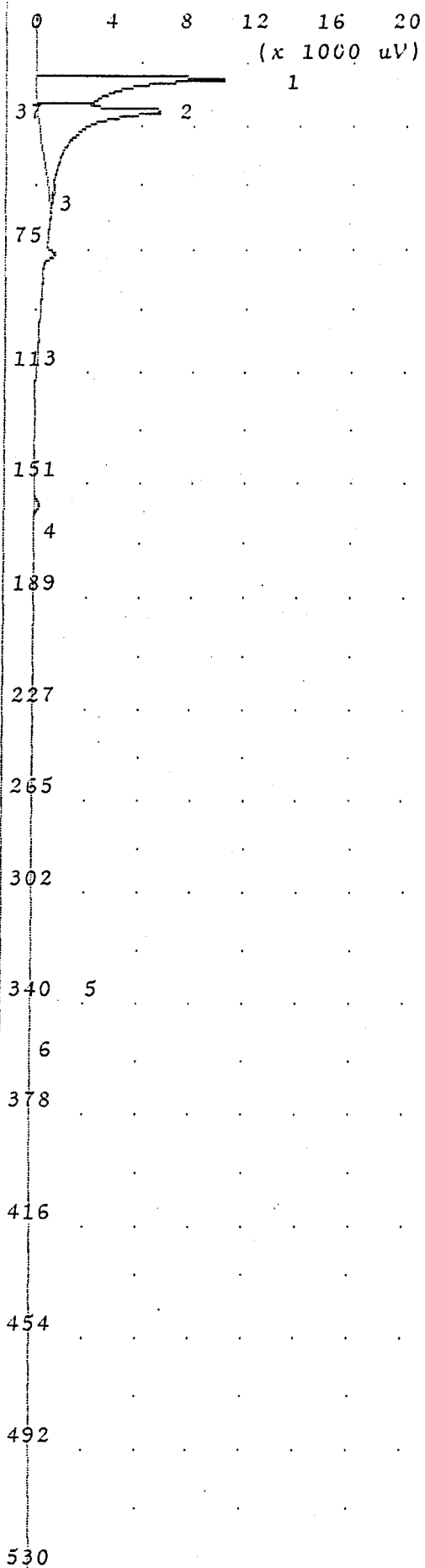
PPM1 = Alarm 1 PPM2 = Alarm 2

Notes
Biller Mitchell Air National
Base Standard

10 PPM BTEX STD

Alarm 1 10S+ GC Function Nov 9, 94 12:27					
-- Analysis No 3 -- Run at - Nov 9, 94 12:10 -					
Pk No	Name	Conc/Area	Alarm	Ret. Time	
1	Unknown	28.30 mUS	-No-	21.1	sec
2	Unknown	129.2 mUS	-No-	23.0	sec
3	Unknown	283.2 mUS	-No-	30.4	sec
4	Unknown	1.531 mUS	-No-	34.3	sec
5	Benzene	10.00 ppm	-No-	36.5	sec
6	Toluene	10.00 ppm	-No-	41.2	sec
7	Ethylbenzene	10.00 ppm	-No-	48.0	sec
8	MP Xylene	20.01 ppm	-No-	54.2	sec
9	O Xylene	10.16 ppm	-No-	56.6	sec
- Detected 9 peaks.				535	sec





Time Printed: Oct 20, 94 15:17

Sample Time: Oct 20, 94 15:08

Method

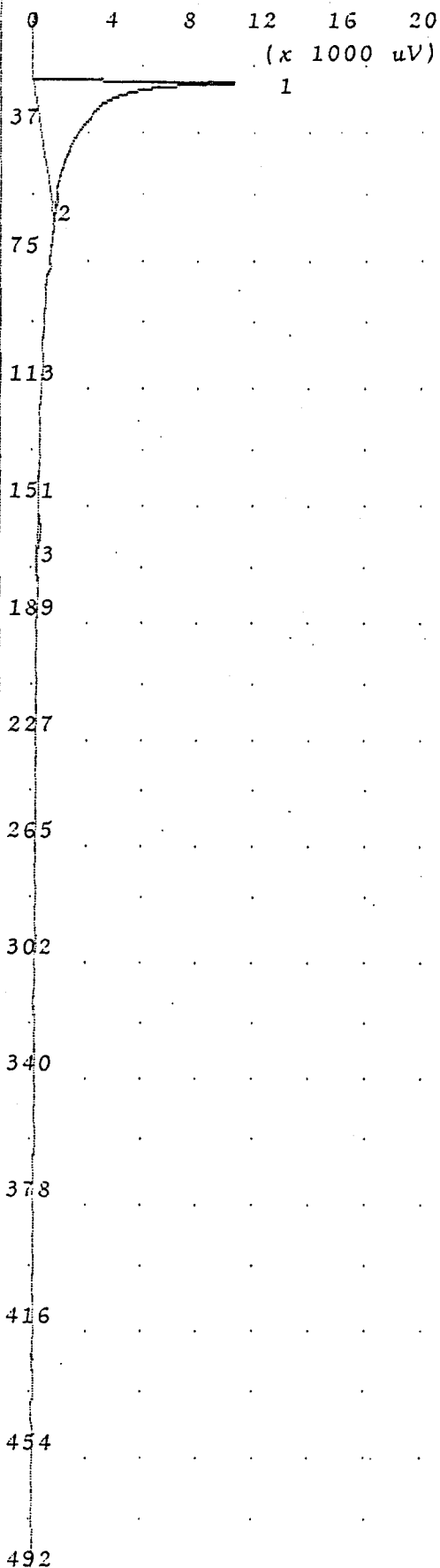
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	51.27 mVS	20.3
2	Unknown	53.07 mVS	30.5
3	Unknown	0.363 mVS	54.3
4	Toluene	8.783 ppb	155.4
5	Ethylbenzene	22.19 ppb	327.7
6	MP Xylene	50.10 ppb	353.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
AIR BLANK



Time Printed: Oct 20, 94 16:20

Sample Time: Oct 20, 94 16:11

Method

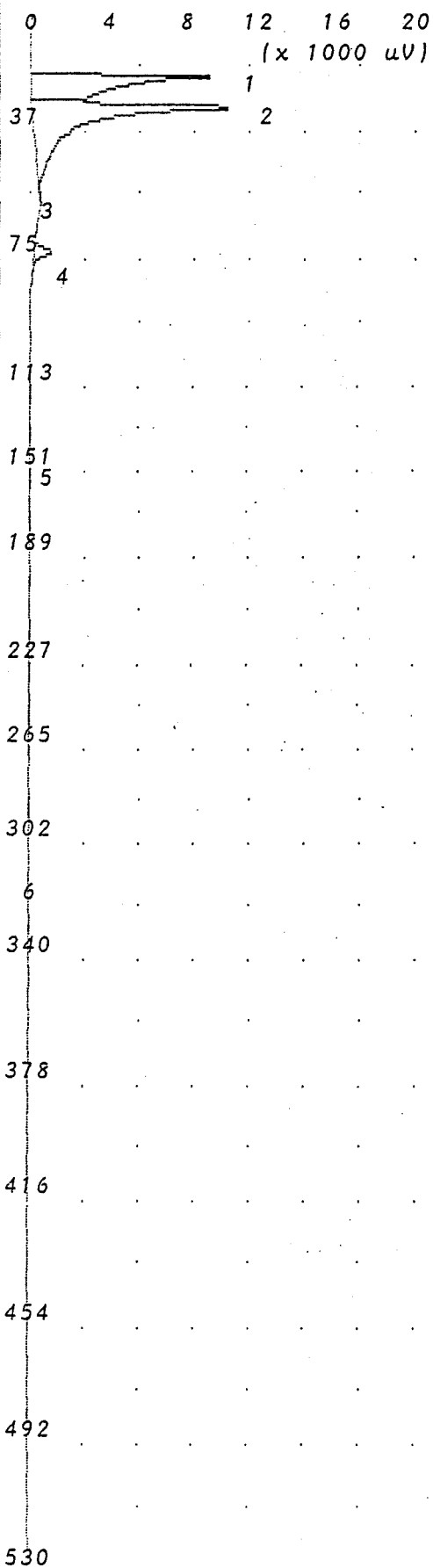
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	84.69 mVS	20.5
2	Unknown	0.297 mVS	54.4
3	Toluene	2.930 ppb	156.6

Notes

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Time Printed: Oct 21, 94 09:33

Sample Time: Oct 21, 94 09:24

Method

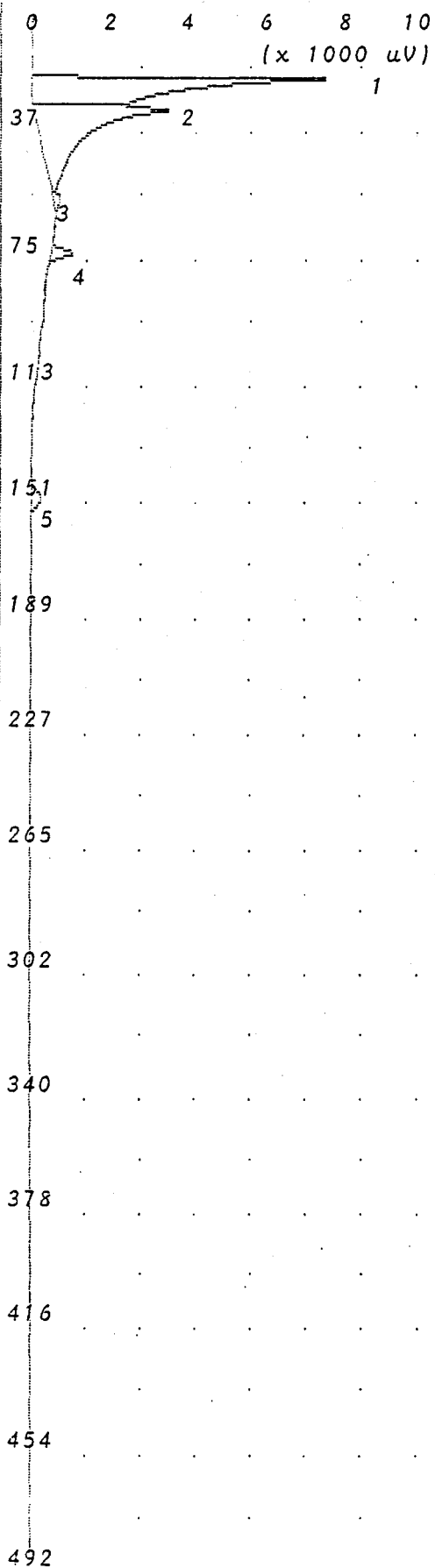
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.52 mVS	19.0
2	Unknown	57.47 mVS	28.2
3	Unknown	0.332 mVS	54.4
4	Benzene	5.138 ppb	70.9
5	Toluene	6.747 ppb	148.2
6	Ethylbenzene	2.406 ppb	312.0

Notes

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Time Printed: Oct 21, 94 09:44

Sample Time: Oct 21, 94 09:35

Method

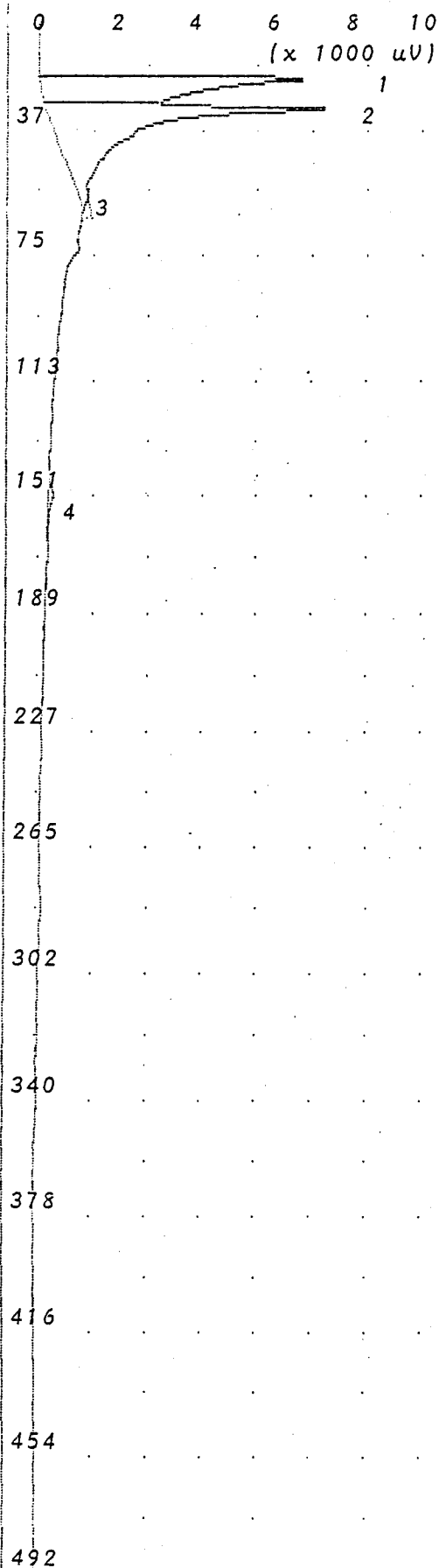
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	37.20 mVS	19.1
2	Unknown	30.43 mVS	28.5
3	Unknown	0.855 mVS	54.4
4	Benzene	2.749 ppb	70.8
5	Toluene	4.704 ppb	147.6

Notes

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Time Printed: Oct 21, 94 11:47

Sample Time: Oct 21, 94 11:38

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

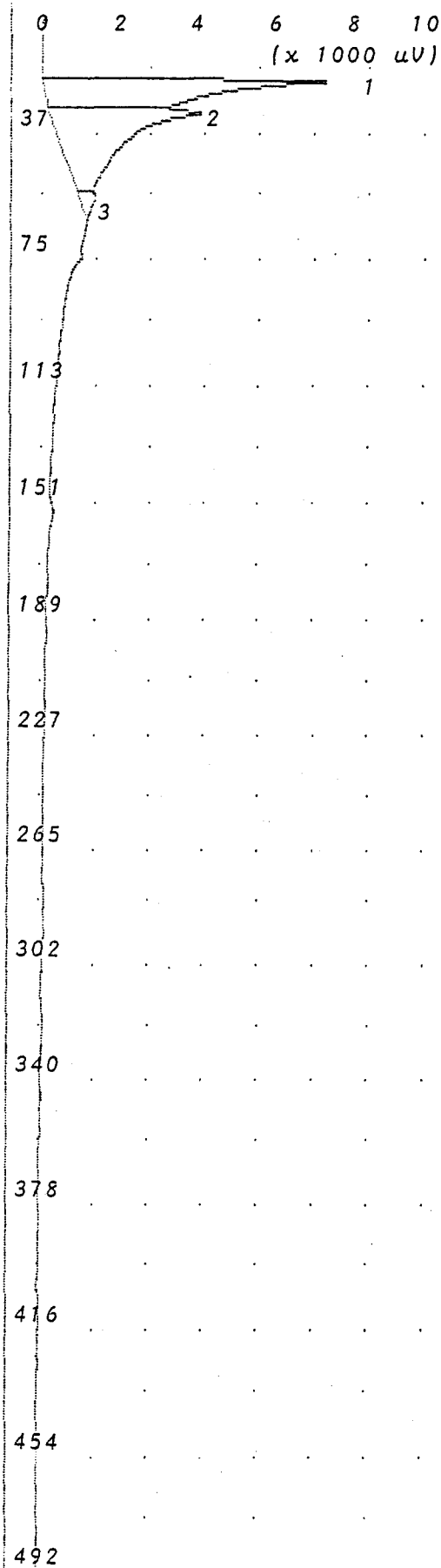
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	39.13 mVS	19.0
2	Unknown	52.14 mVS	28.7
3	Unknown	0.140 mVS	54.4
4	Unknown	0.821 mVS	149.6

Notes

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Guard Base
AIR BLANK

0	2	4	6	8	10	Time Printed: Oct 21, 94 16:10
			(x 1000 uV)			Sample Time: Oct 21, 94 16:09
						Method
37						Slope Up 0.500 mV/Sec
						Slope Down 1.500 mV/Sec
						Min Area 1.000 mVSec
						Min Height 0.100 mV
75						Analysis Delay 0.0 sec
						Window Percent 10.0 %
						Det Flow 10 ml/min
						B/F Flow 10 ml/min
113						Aux Flow 0 ml/min
						Oven Temp 40 C
						Amb Temp 30 C
						Max Gain 1000
151						Analysis Time 530.0 sec
						Peak Report
						Pk Compound Name Area/Conc R.T.
189						
227						
265						
302						
340						
378						
416						Notes
						Mark Escobar
						Billy Mitchell Air National
						Guard Base
454						AIR BLANK
492						
530						



Time Printed: Oct 21, 94 16:21

Sample Time: Oct 21, 94 16:12

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.76 mVS	19.6
2	Unknown	42.23 mVS	29.2
3	Unknown	2.167 mVS	54.0

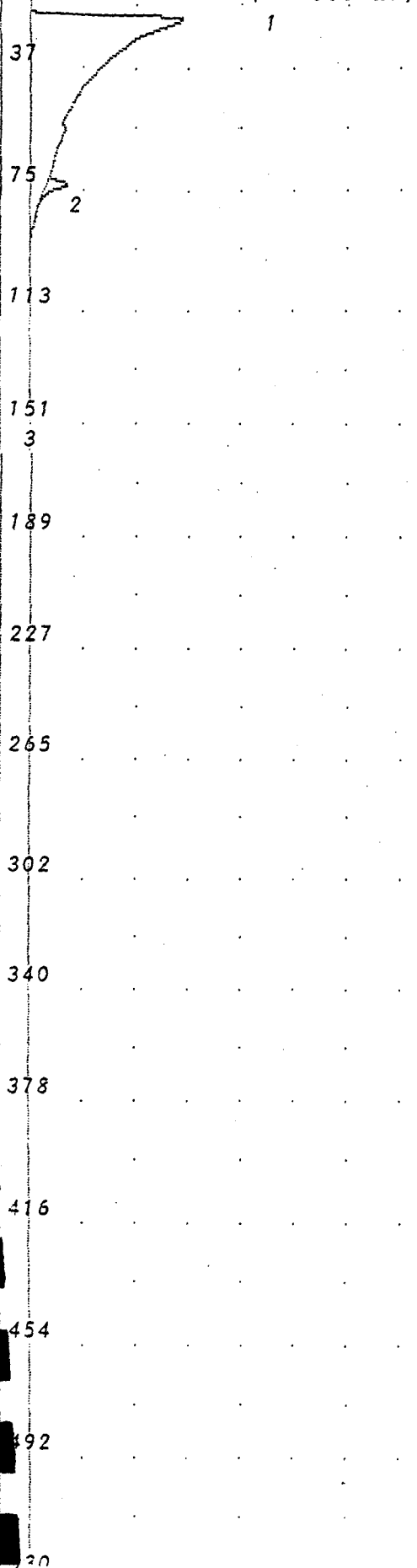
Notes

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Billy Mitchell Air National
Guard Base
AIR BLANK

Analysis #4

10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 1000 uV)



Time Printed: Oct 24, 94 16:16

Sample Time: Oct 24, 94 16:07

Method

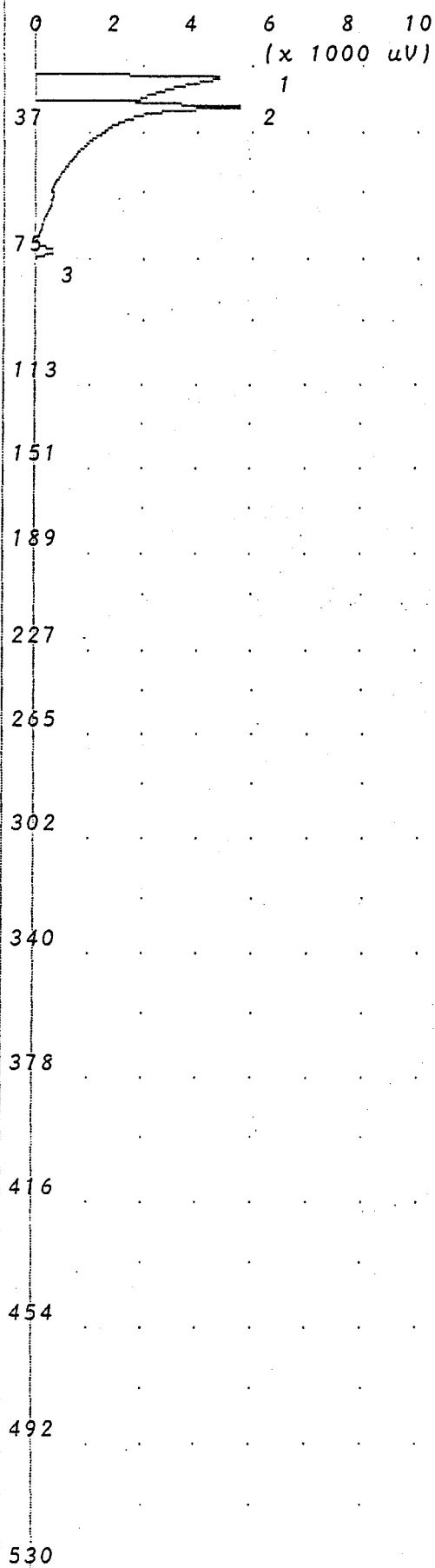
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	124.8 mVS	19.0
2	Benzene	0.492 ppb	71.7
3	Toluene	0.704 ppb	150.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank



Time Printed: Oct 25,94 11:23

Sample Time: Oct 25,94 11:15

Method

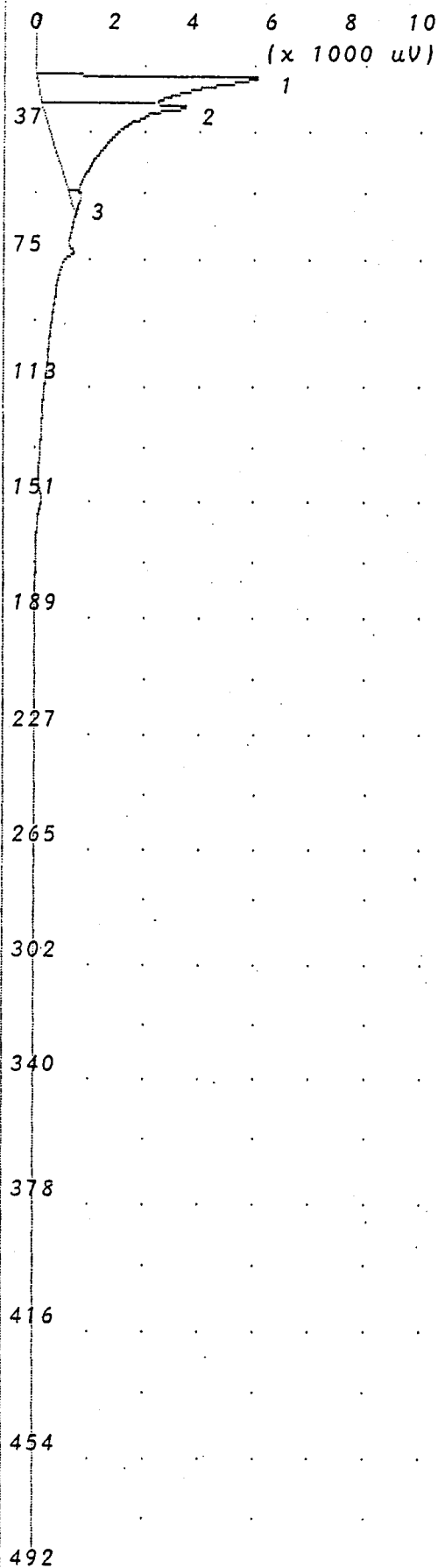
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	34.94 mVS	18.5
2	Unknown	80.76 mVS	27.8
3	Benzene	9.477 ppb	70.9

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank



Time Printed: Oct 25, 94 11:40

Sample Time: Oct 25, 94 11:31

Method

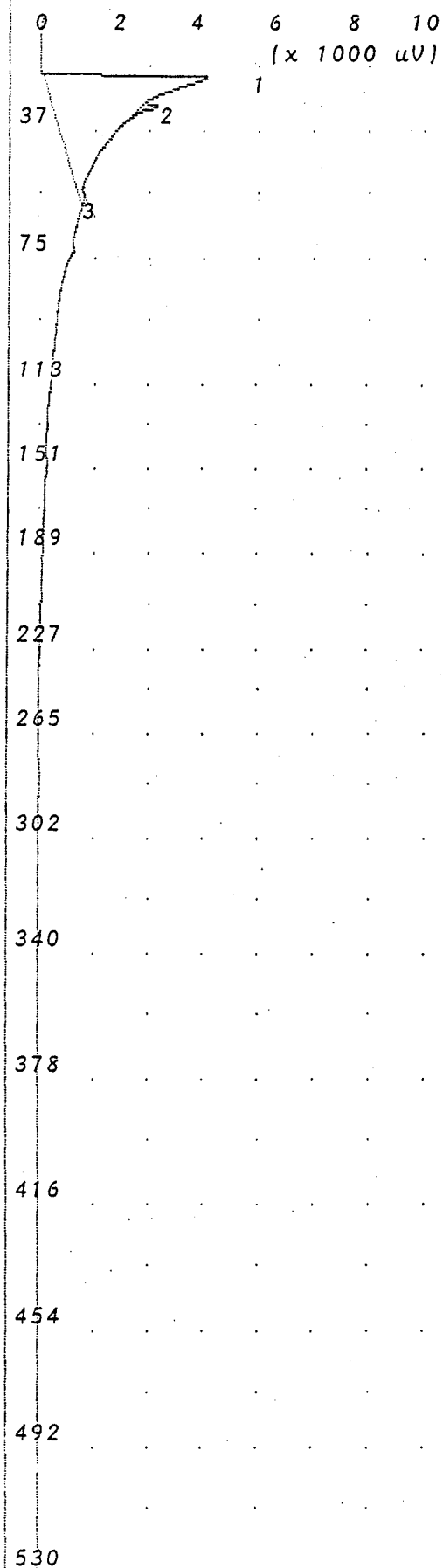
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	35.76 mVS	19.2
2	Unknown	39.31 mVS	28.1
3	Unknown	1.319 mVS	54.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank



Time Printed: Oct 25,94 12:51

Sample Time: Oct 25,94 12:42

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 1.000 mVSec

Min Height 0.100 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 10 ml/min

B/F Flow 10 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 33 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	61.93 mVS	18.6
2	Unknown	0.874 mVS	28.0
3	Unknown	0.067 mVS	54.4

Notes

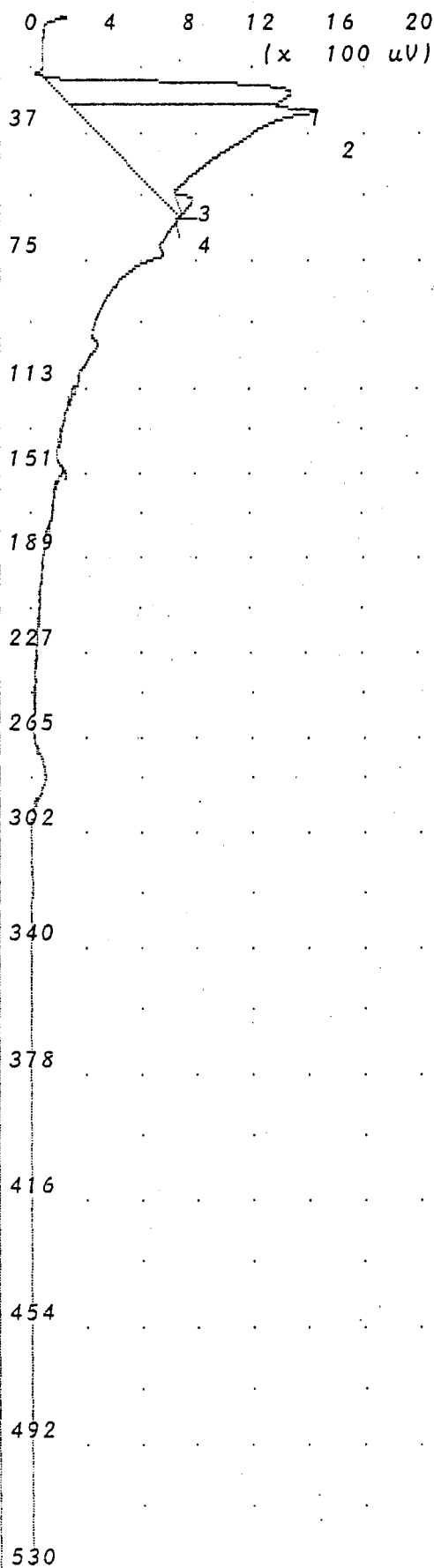
Mark Escobar

Billy Mitchell Air National

Guard Base

Air Blank

Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 25, 94 14:39

Sample Time: Oct 25, 94 14:30

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

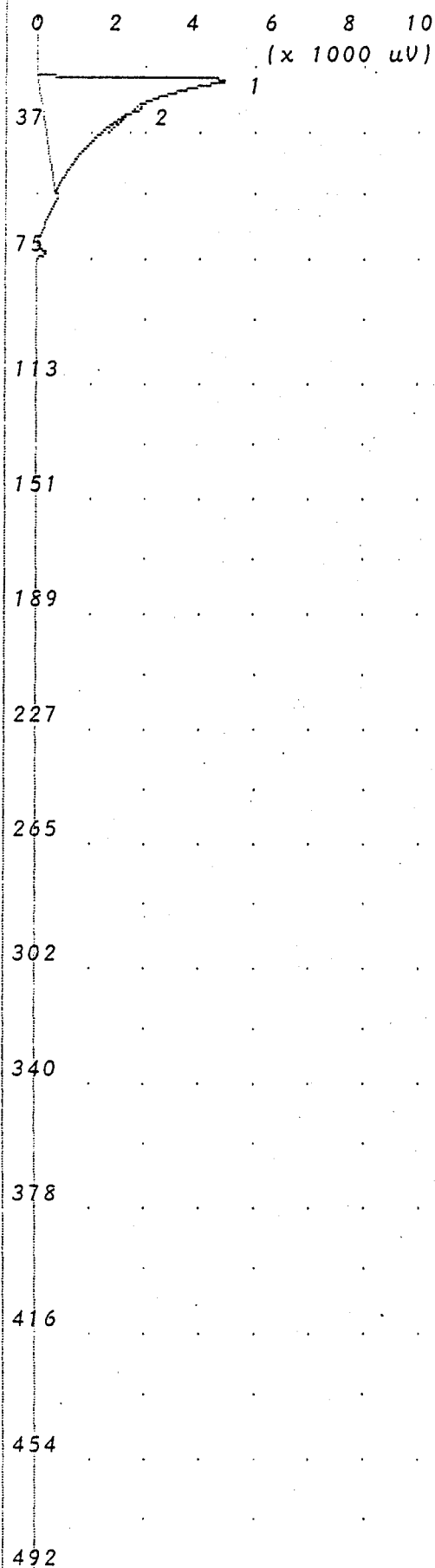
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	8.649 mVS	23.8
2	Unknown	16.06 mVS	28.8
3	Unknown	0.092 mVS	54.8
4	Unknown	0.272 mVS	55.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank

Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 26, 94 11:56

Sample Time: Oct 26, 94 11:47

Method

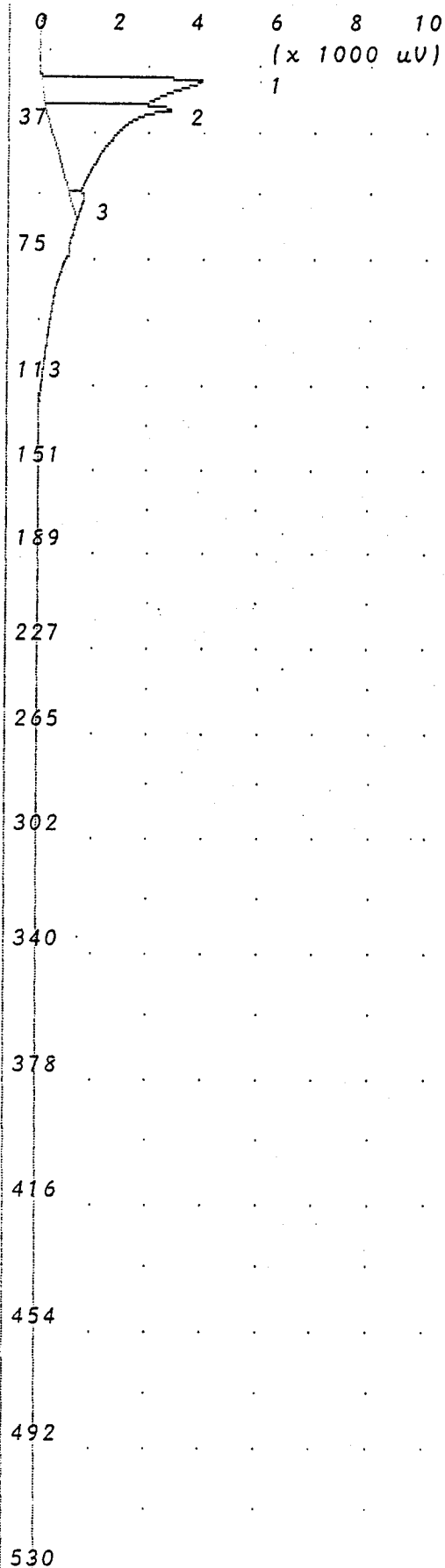
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	69.68 mVS	18.8
2	Unknown	0.197 mVS	28.1

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 Air Blank



Time Printed: Oct 26, 94 14:16

Sample Time: Oct 26, 94 14:07

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

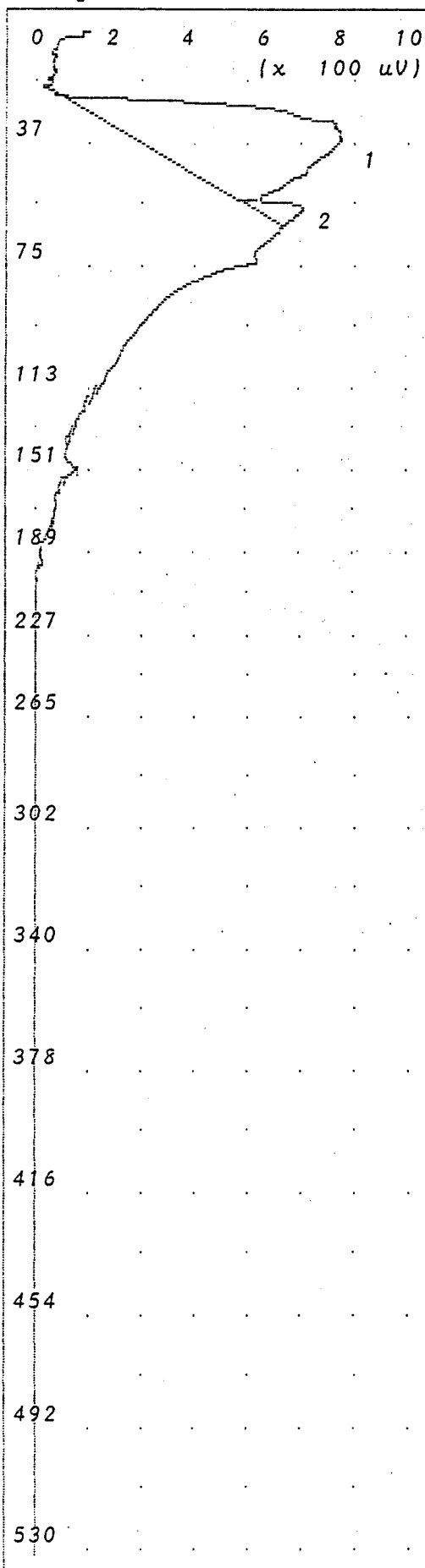
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.18 mVS	19.0
2	Unknown	37.30 mVS	28.2
3	Unknown	1.883 mVS	54.2

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 Air Blank

Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:39

Sample Time: Oct 26,94 15:30

Method

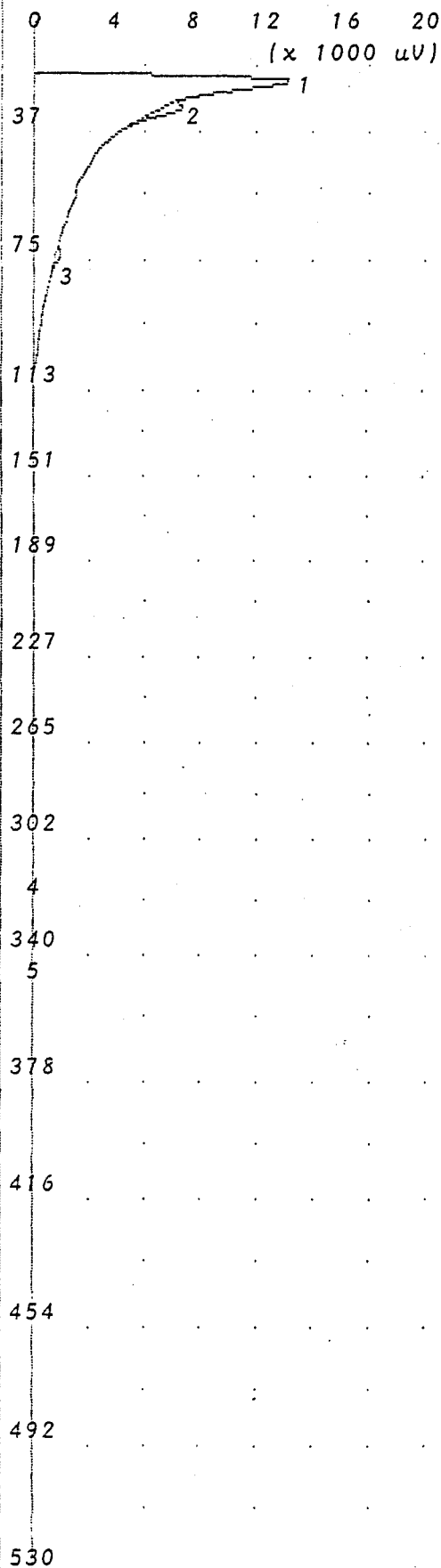
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	12.65 mVS	32.4
2	Unknown	0.622 mVS	55.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 Air Blank



Time Printed: Oct 27,94 10:40

Sample Time: Oct 27,94 10:32

Method

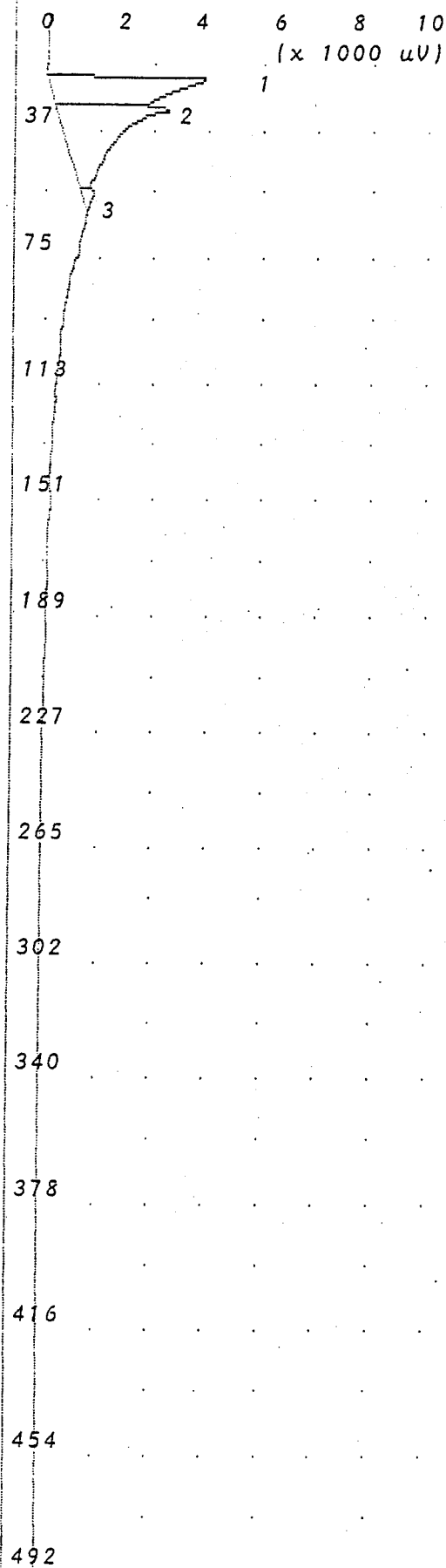
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	304.7 mVS	20.3
2	Unknown	3.476 mVS	28.0
3	Unknown	0.844 mVS	71.2
4	Ethylbenzene	0.557 ppb	313.0
5	MP Xylene	3.393 ppb	336.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank



Time Printed: Oct 27, 94 12:11

Sample Time: Oct 27, 94 12:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

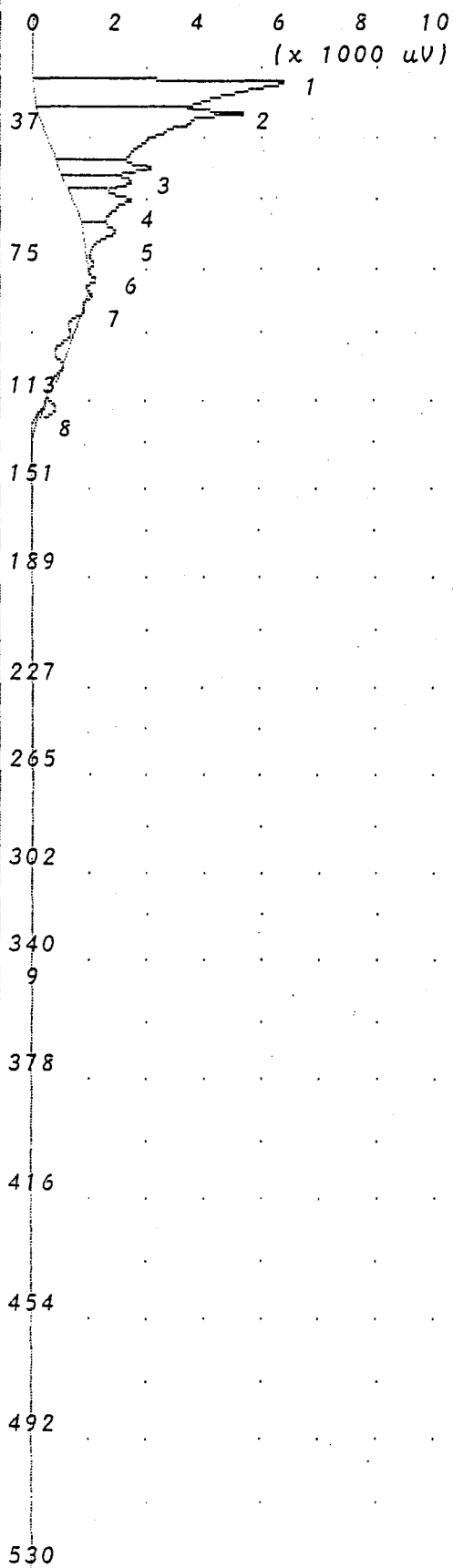
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	28.00 mVS	19.5
2	Unknown	32.53 mVS	29.0
3	Unknown	1.353 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
Air Blank

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 27, 94 14:48

Sample Time: Oct 27, 94 14:39

Method

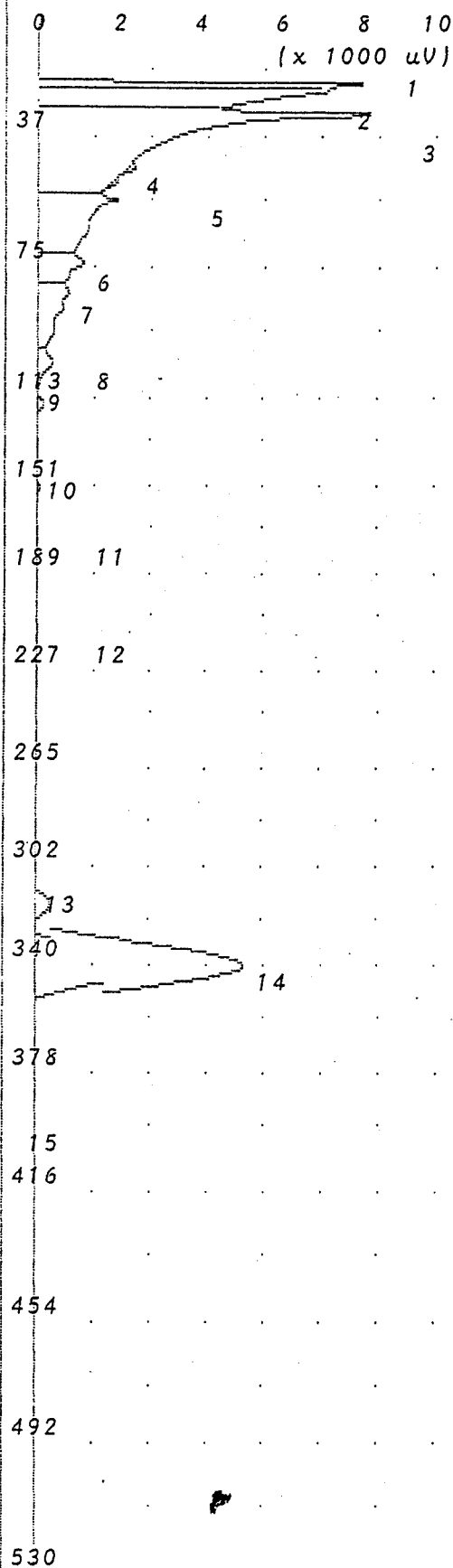
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 33 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	41.66 mVS	20.0
2	Unknown	44.68 mVS	28.5
3	Unknown	8.697 mVS	44.2
4	Unknown	6.556 mVS	48.1
5	Unknown	9.548 mVS	53.8
6	Unknown	4.404 mVS	62.8
7	Benzene	0.291 ppb	76.2
8	Unknown	1.440 mVS	116.9
9	MP Xylene	8.661 ppb	339.6

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 Air Blank



Time Printed: Oct 28,94 11:21

Sample Time: Oct 28,94 11:12

Method

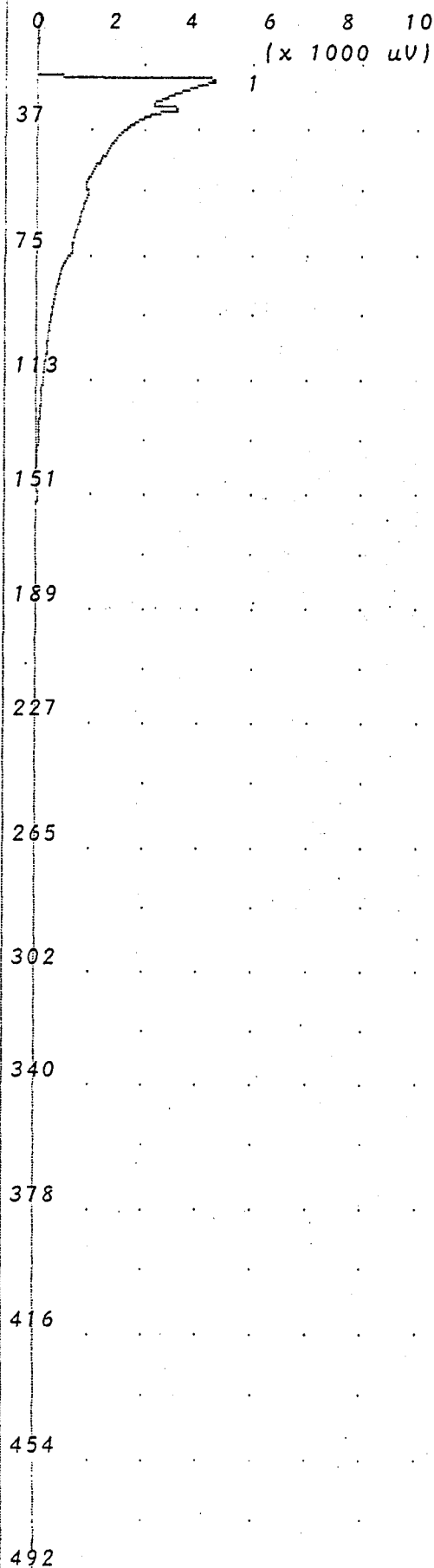
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 200.0 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.91 mVS	20.0
2	Unknown	39.50 mVS	21.9
3	Unknown	88.39 mVS	28.9
4	Unknown	0.762 mVS	44.3
5	Unknown	28.67 mVS	53.9
6	Unknown	11.02 mVS	72.0
7	Unknown	16.10 mVS	80.9
8	Unknown	6.965 mVS	101.0
9	Unknown	5.967 mVS	116.0
10	Unknown	4.901 mVS	149.2
11	Unknown	1.907 mVS	177.2
12	Unknown	2.758 mVS	218.2
13	Unknown	19.61 mVS	314.4
14	Unknown	123.1 mVS	338.3
15	Unknown	30.81 mVS	396.3

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
Air Blank



Time Printed: Oct 28, 94 12:48

Sample Time: Oct 28, 94 12:39

Method

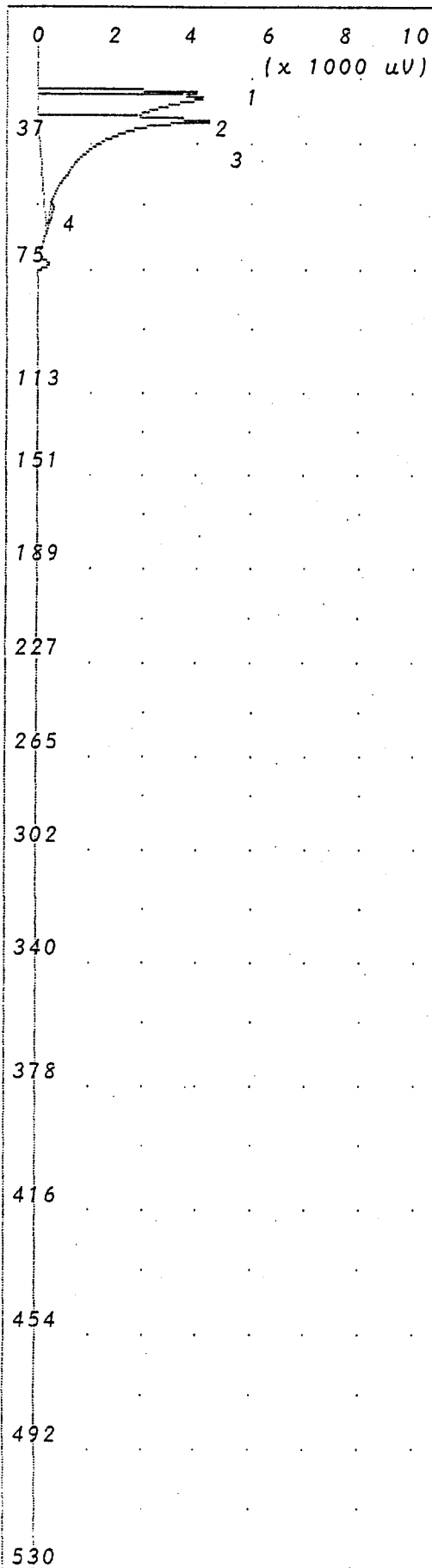
Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	130.3 mVS	19.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
Air Blank



Time Printed: Oct 28, 94 09:23

Sample Time: Oct 28, 94 09:15

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 1.000 mVSec

Min Height 0.100 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

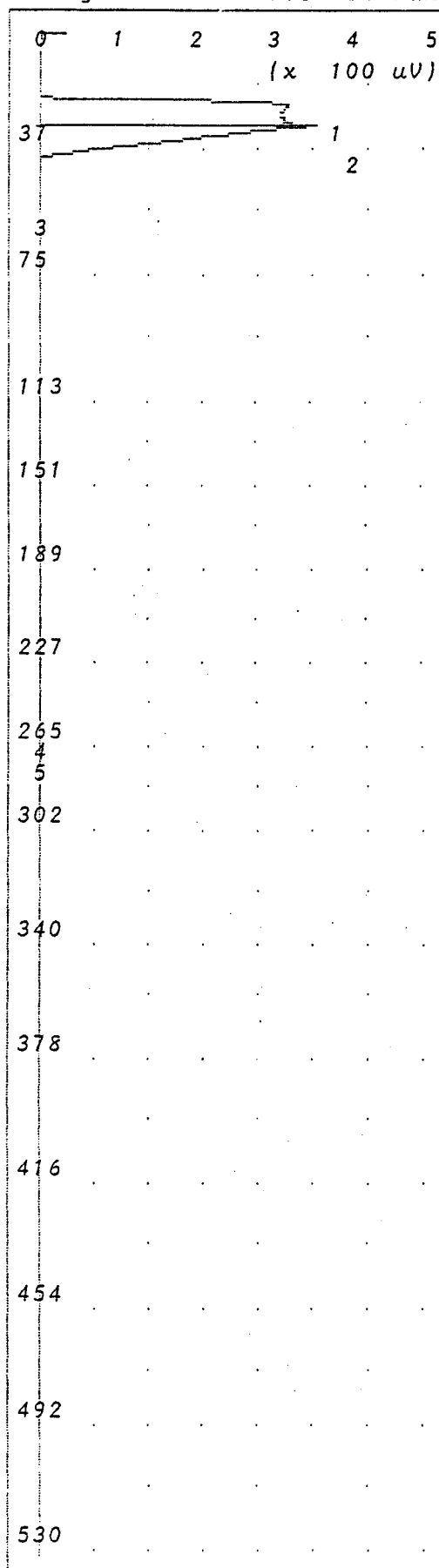
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.916 mVS	19.2
2	Unknown	24.47 mVS	21.5
3	Unknown	41.96 mVS	28.4
4	Unknown	0.320 mVS	54.2

Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
Air Blank



Time Printed: Oct 29,94 09:10

Sample Time: Oct 29,94 09:01

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

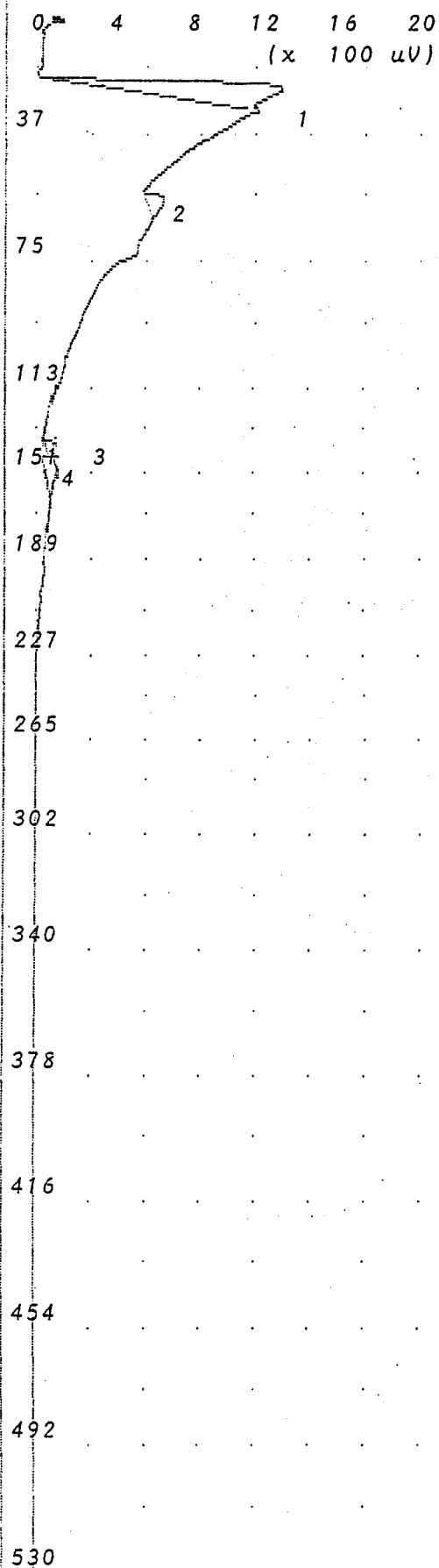
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.538 mVS	22.4
2	Unknown	11.57 mVS	28.4
3	Unknown	0.553 mVS	55.3
4	Unknown	0.470 mVS	264.8
5	Unknown	2.224 mVS	270.9

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 10:30

Sample Time: Oct 29, 94 10:21

Method

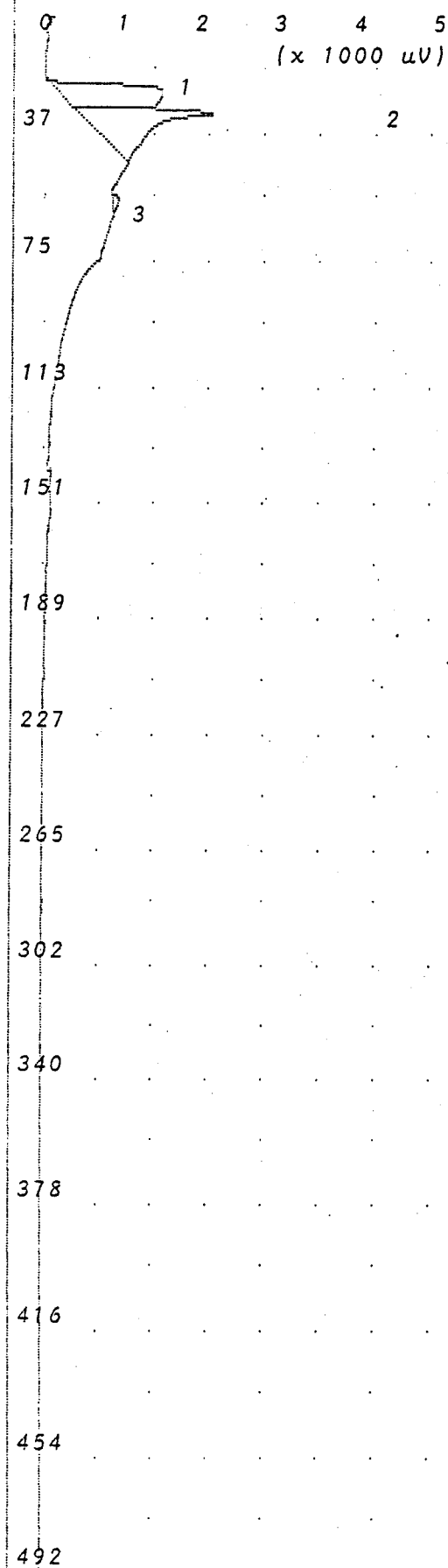
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.695 mVS	22.4
2	Unknown	0.451 mVS	55.4
3	Unknown	0.129 mVS	138.5
4	Toluene	1.797 ppb	148.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



Time Printed: Oct 29,94 13:18

Sample Time: Oct 29,94 13:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

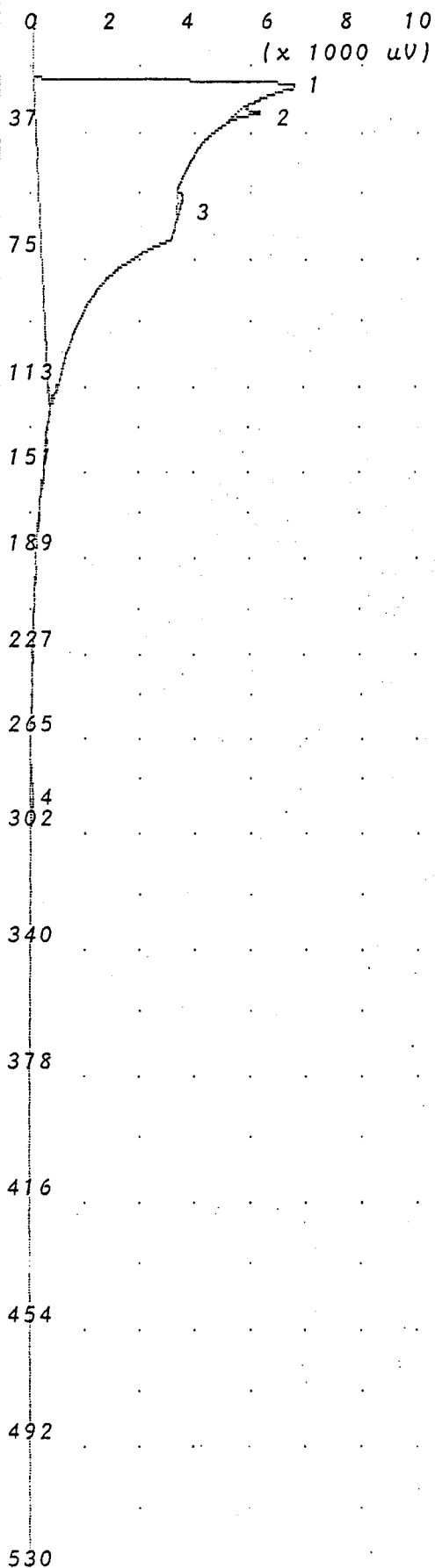
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	9.478 mVS	21.9
2	Unknown	10.98 mVS	28.8
3	Unknown	0.410 mVS	55.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #27 10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 15:29

Sample Time: Oct 29, 94 15:20

Method

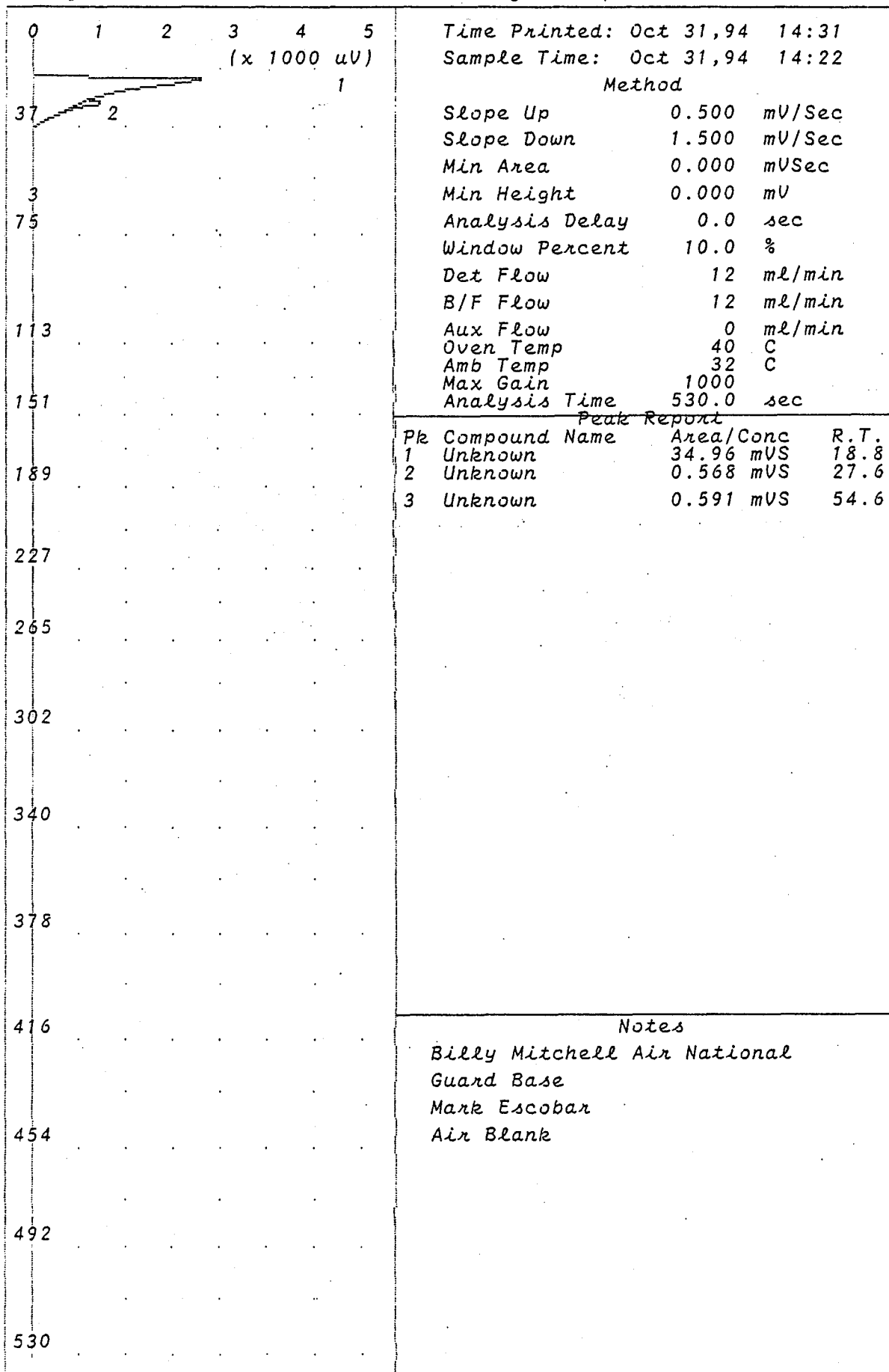
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 0.000 mVSec
 Min Height 0.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 12 ml/min
 B/F Flow 12 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 31 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	268.2 mVS	21.8
2	Unknown	1.023 mVS	29.4
3	Unknown	0.566 mVS	54.7
4	Unknown	1.438 mVS	286.1

Notes

Billy Mitchell Air National
 Guard Base
 Mark Escobar
 Air Blank



Time Printed: Oct 31,94 14:31

Sample Time: Oct 31,94 14:22

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

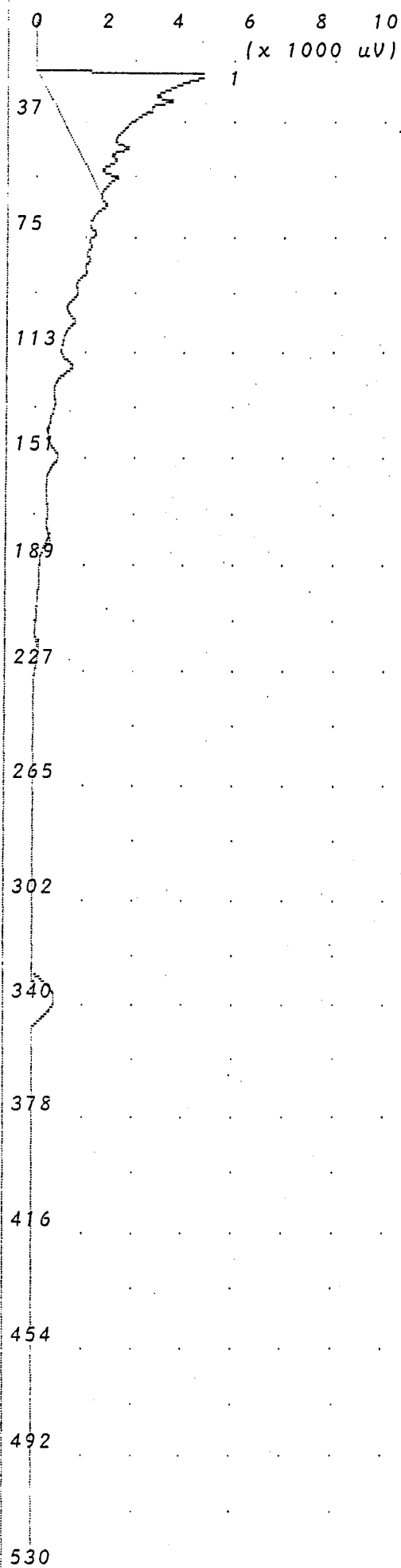
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	34.96 mVS	18.8
2	Unknown	0.568 mVS	27.6
3	Unknown	0.591 mVS	54.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



Time Printed: Nov 1, 94 14:37

Sample Time: Nov 1, 94 14:28

Method

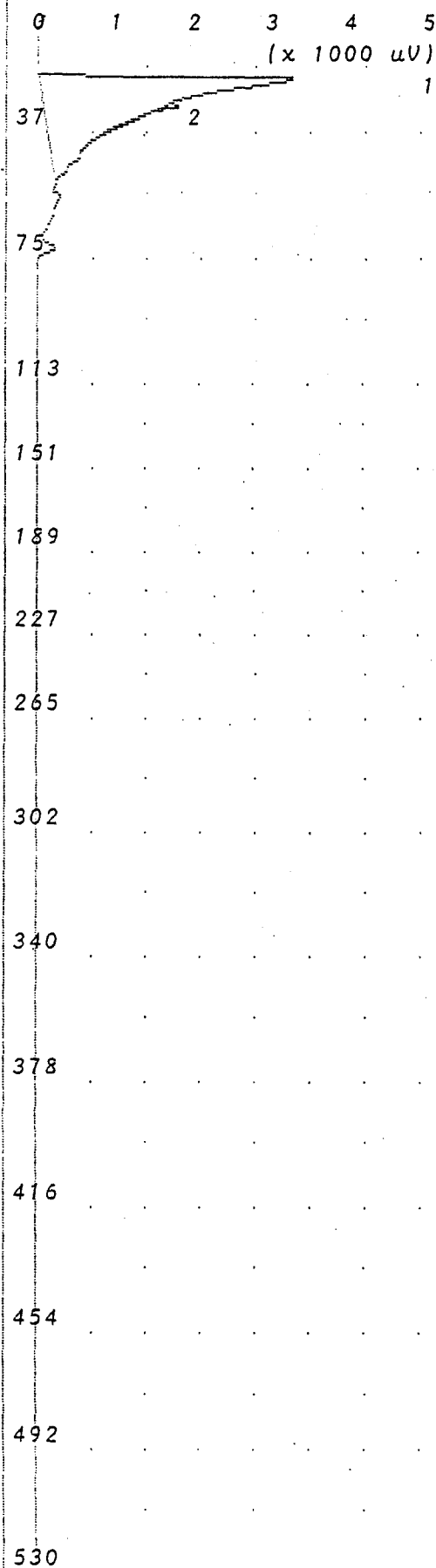
Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	80.68 mVS	19.4

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
Air Blank



Time Printed: Nov 1, 94 09:37

Sample Time: Nov 1, 94 09:28

Method

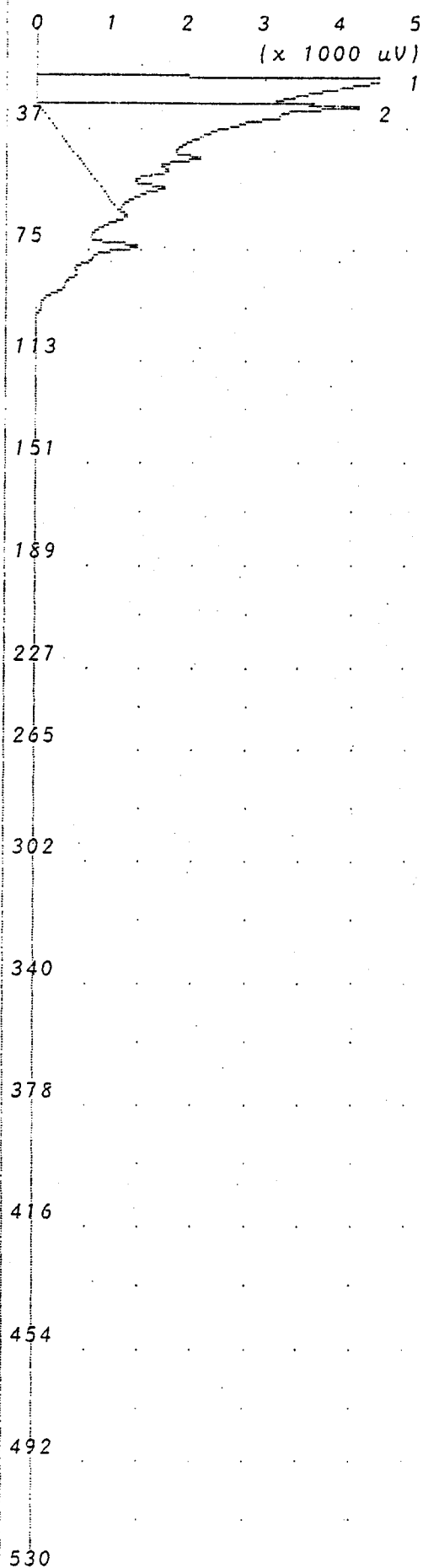
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.51 mVS	18.8
2	Unknown	0.259 mVS	27.8

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
Air Blank



Time Printed: Nov 1, 94 16:08

Sample Time: Nov 1, 94 15:59

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	36.81 mVS	19.3
2	Unknown	50.57 mVS	28.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
Air Blank

0 1 2 3 4 5
(x 1000 uV)

Time Printed: Nov 2, 94 10:34
Sample Time: Nov 2, 94 10:25

Method

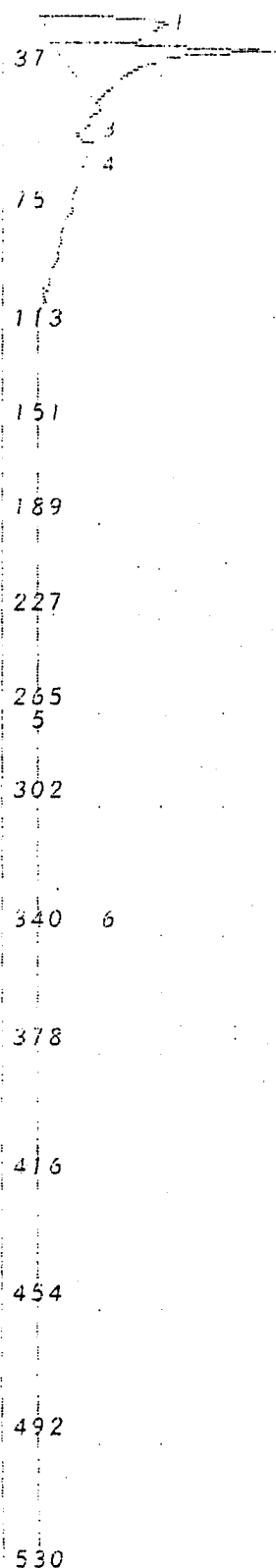
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	10.00 mVS	21.5
2	Unknown	12.33 mVS	28.2
3	Unknown	0.145 mVS	44.1
4	Unknown	0.659 mVS	54.2
5	Unknown	1.379 mVS	261.6
6	MP Xylene	2.806 ppb	331.7

Notes

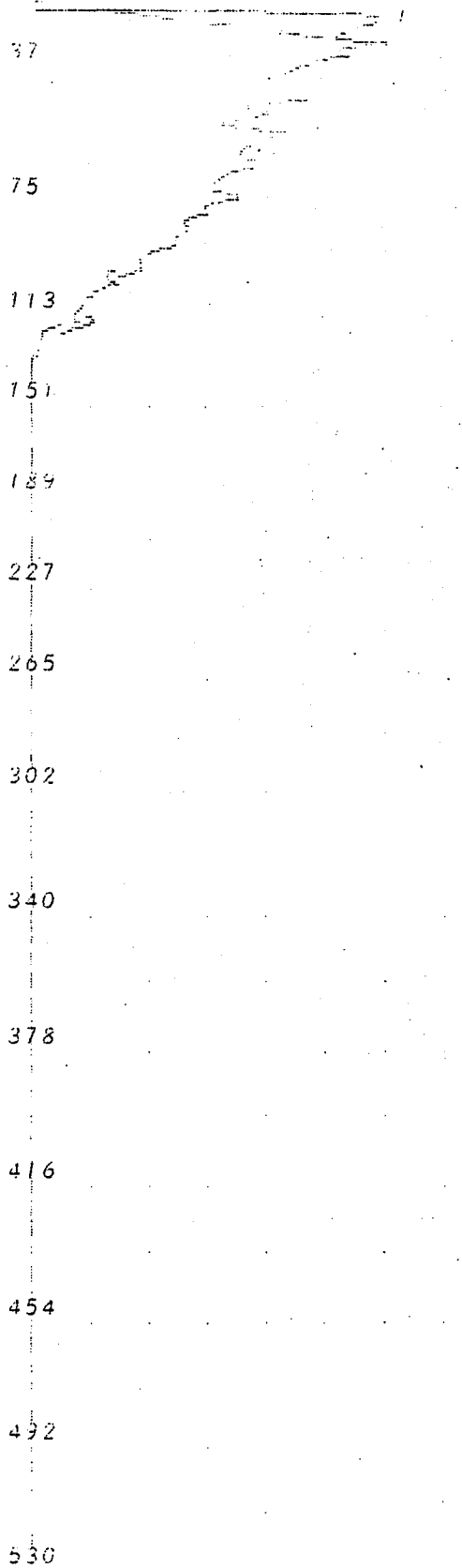
Billy Mitchell Air National
Guard Station
Mark Escobar
Air Blank



Analysis #18 195+ GC Function Analysis Report

G# 4 8 12 16 20
 (x 100 uV)

Time Printed: Nov 2.94 12:16
 Sample Time: Nov 2.94 12:07



Method

Slope Up 3.000 mV/Sec
 Slope Down 3.000 mV/Sec
 Min Area 1.000 mVSec
 Min Height 1.000 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

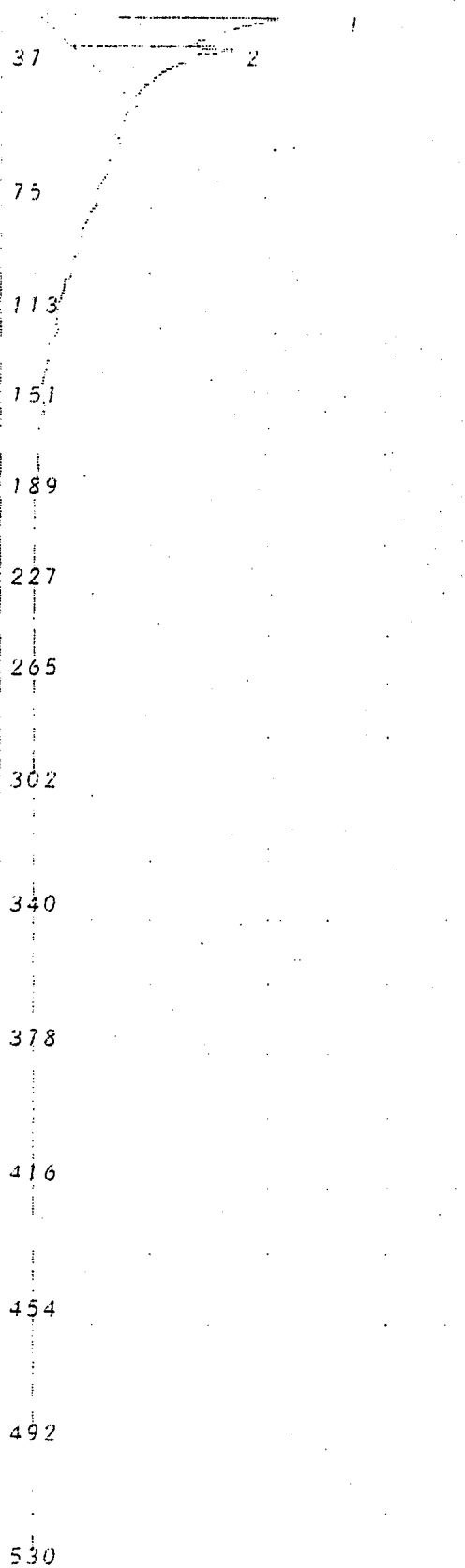
PK	Compound Name	Area/Conc	R.T.
1	Unknown	5.660 mVS	21.2

Notes

Billy Mitchell Air National
 Guard Station
 Mark Escobar
 Air Blank

Analyses #25 105+ GC Function Analysis Report

0 2 4 6 8 10
(x 1000 uV)



Time Printed: Nov 2, 94 15:11

Sample Time: Nov 2, 94 15:02

Method

Slope Up 3.000 mV/Sec
Slope Down 3.000 mV/Sec
Min Area 1.000 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	37.97 mVS	19.4
2	Unknown	23.39 mVS	28.8

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
Air Blank

0 2 4 6 8 10
(x 100 uV)

Time Printed: Nov 4.94 12:17

Sample Time: Nov 4.94 12:08

Method

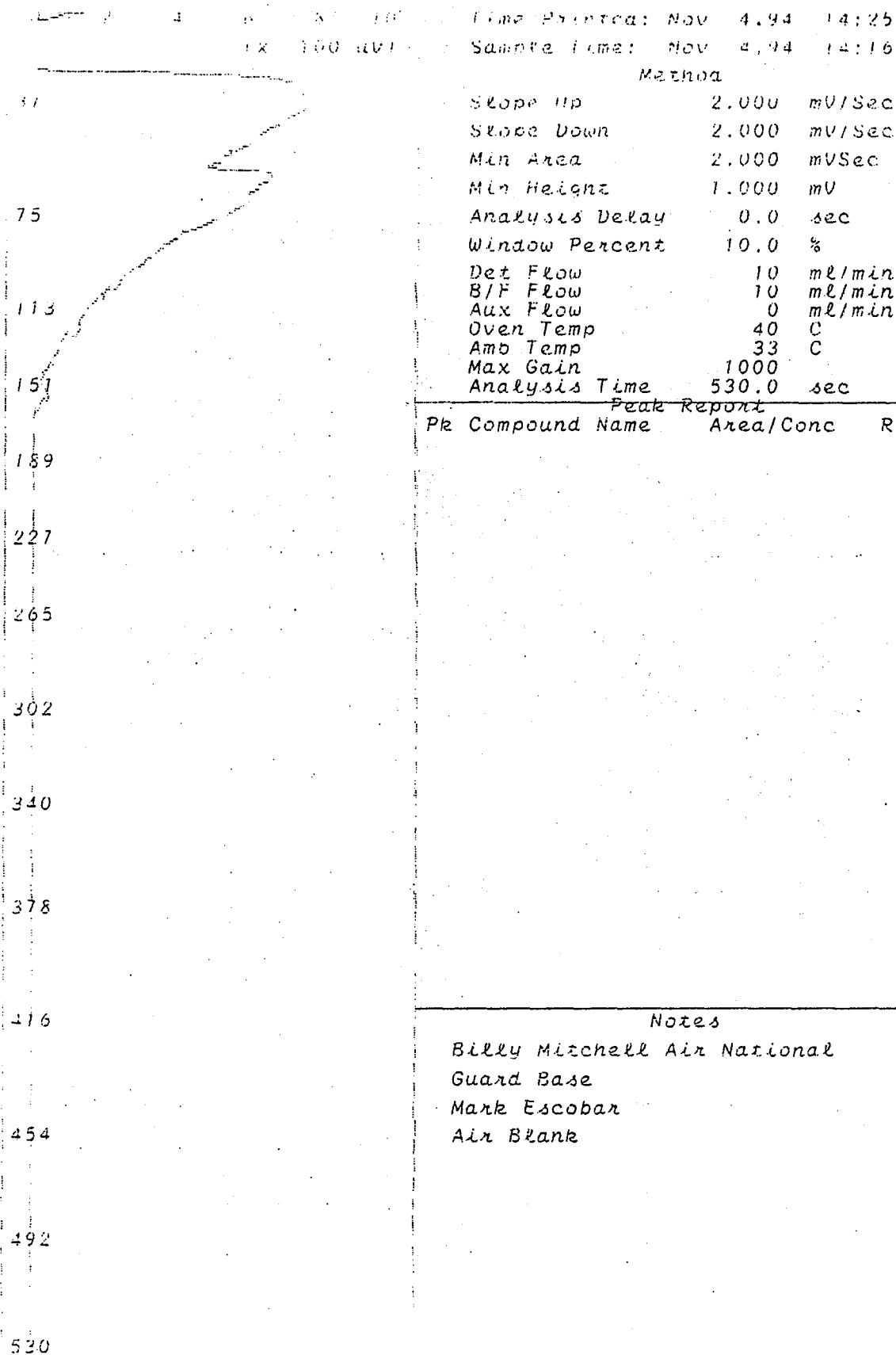
Slope Up 2.000 mV/Sec
Slope Down 6.000 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	4.664 mVS	20.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



0 4 8 12 16 20
(x 100 uV)

Time Printed: Nov 3, 94 14:04

Sample Time: Nov 3, 94 13:55

Method

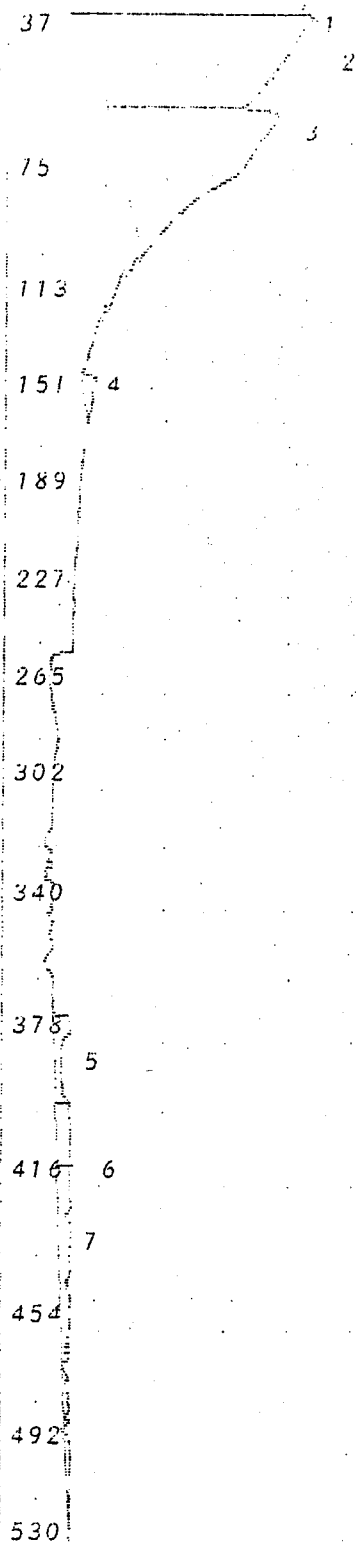
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	8.054 mVS	25.2
2	Unknown	21.86 mVS	29.2
3	Unknown	16.24 mVS	55.2
4	Toluene	0.863 ppb	142.2
5	Unknown	1.108 mVS	373.0
6	O Xylene	89.75 ppb	409.0
7	Unknown	3.379 mVS	423.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



0 2 4 6 8 10
(x 100 uV)

Time Printed: Nov 3, 94 12:36

Sample Time: Nov 3, 94 12:27

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.604 mVS	25.3
2	Unknown	10.36 mVS	29.3
3	Unknown	0.665 mVS	55.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

37

75

113

151

189

227

265

302

340

378

416

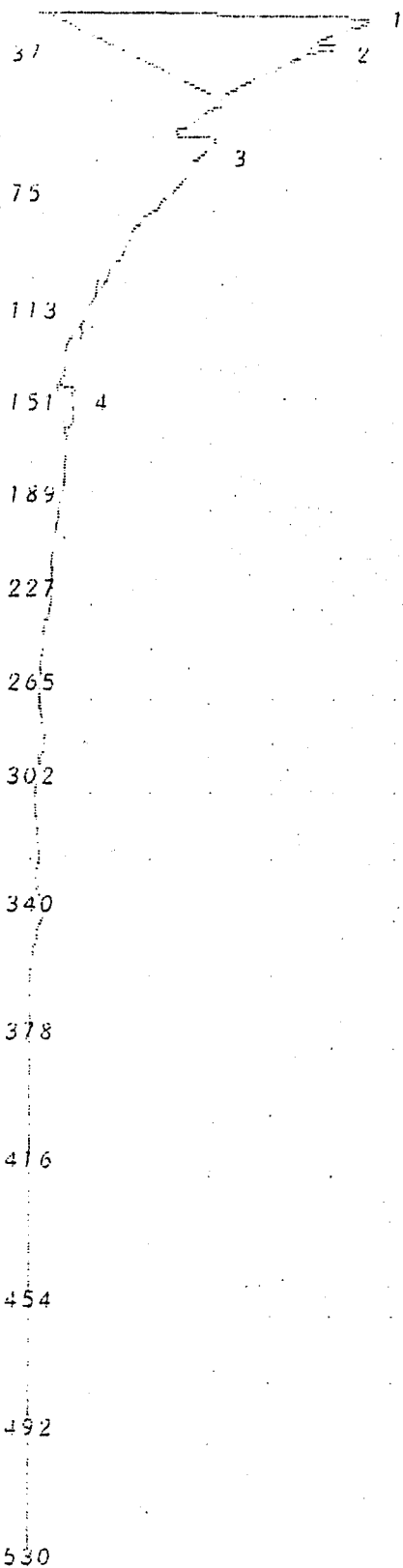
454

492

530

Analysis #14 10S+ GC Function Analysis Report

Q# 4 8 12 16 20
(x 100 uV)



Time Printed: Nov 3, 94 10:43

Sample Time: Nov 3, 94 10:34

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

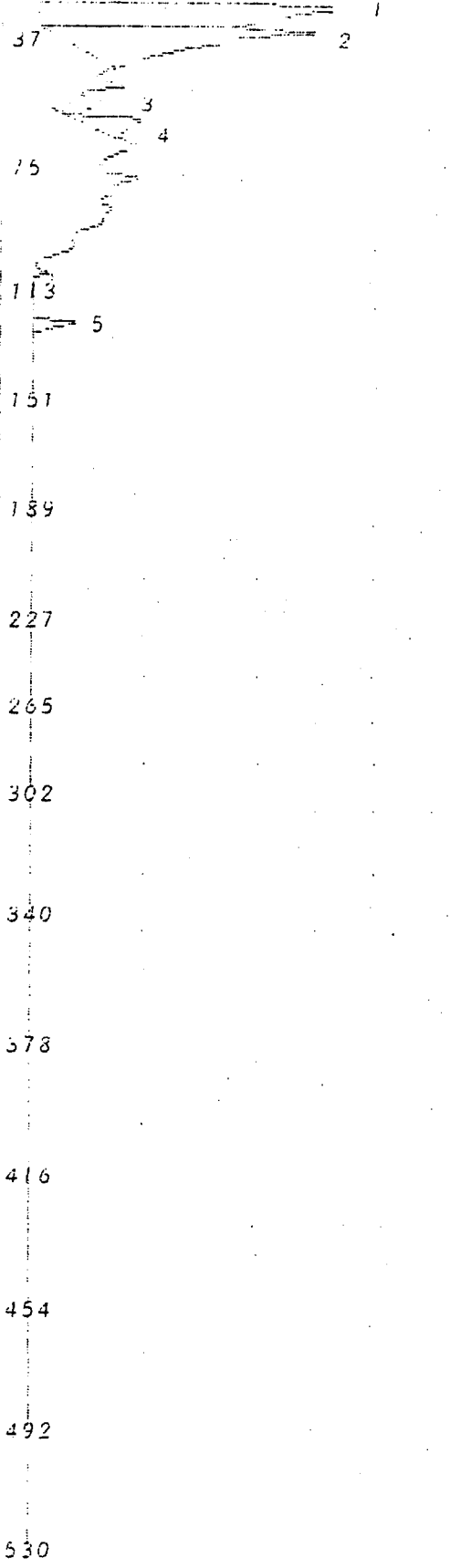
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	18.44 mVS	22.0
2	Unknown	0.253 mVS	29.0
3	Unknown	0.661 mVS	55.0
4	Toluene	1.073 ppb	137.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

0-2 100 uV



Time Printed: Nov 3, 14 08:46
Sample Time: Nov 3, 94 03:37

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report			
Pe	Compound Name	Area/Conc	R.T.
1	Unknown	5.338 mVS	21.2
2	Unknown	3.558 mVS	28.2
3	Unknown	0.254 mVS	44.2
4	Unknown	0.638 mVS	54.3
5	Unknown	0.893 mVS	115.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

0 1 2 3 4 5
(x 1000 uV)

Time Printed: Nov 3.94 08:35

Sample Time: Nov 3.94 08:26

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 20.0 %
Det Flow 12 mL/min
B/F Flow 12 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.86 mVS	19.1
2	Unknown	14.32 mVS	27.5
3	Unknown	0.562 mVS	54.6
4	Benzene	1.698 ppb	71.0
5	Unknown	0.136 mVS	98.6
6	Unknown	0.587 mVS	135.7
7	Toluene	2.143 ppb	145.8
8	Ethylbenzene	4.266 ppb	308.0
9	MP Xylene	14.18 ppb	329.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

0 1 2 3 4 5 Time Printed: Nov 7, 94 14:37

1x 100 uV Sample Time: Nov 7, 94 14:29

Method

1
27
3
4
15
5
113
151

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

159
227
265
302
340
378
416
454
492
530

PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.245 mVS	20.4
2	Unknown	0.038 mVS	27.4
3	Unknown	0.208 mVS	28.4
4	Unknown	5.037 mVS	56.5
5	Benzene	3.930 ppb	70.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

0 1 2 3 4 5
(x 1000 uV)

Time Printed: Nov 7, 94 16:02

Sample Time: Nov 7, 94 15:53

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 mL/min
B/F Flow 10 mL/min
Aux Flow 0 mL/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pe	Compound Name	Area/Conc	R.T.
1	Unknown	16.96 mVS	20.2
2	Unknown	21.28 mVS	29.1
3	Unknown	0.890 mVS	55.3
4	Toluene	0.144 ppb	135.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

530

0 1 2 3 4 5
(x 100 uV)

Time Printed: Nov 8.94 10:15

Sample Time: Nov 8.94 10:06

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 10 ml/min

B/F Flow 10 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 530.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	1.899 mVS	23.2
2	Unknown	0.136 mVS	29.2
3	Unknown	0.897 mVS	56.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

0 2 4 6 8 10
(x 100 μV)

Time Printed: Nov 9, 94 12:37

Sample Time: Nov 9, 94 12:28

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 10 ml/min

B/F Flow 10 ml/min

Aux Flow 0 ml/min

Oven Temp	40	C
Amb Temp	22	C

Max Gain	1000	
----------	------	--

Analysis Time, 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	3.974 mVS	31.2
2	Unknown	6.195 mVS	34.2
3	Unknown	0.884 mVS	55.2

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	3.974 mVS	31.2
2	Unknown	6.195 mVS	34.2
3	Unknown	0.884 mVS	55.2

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	3.974 mVS	31.2
2	Unknown	6.195 mVS	34.2
3	Unknown	0.884 mVS	55.2

Notes

Billy Mitchell Air National

AIR BLANK

10044522: #54: 60S7060-h40c-10044522 9.94 12:38

~~Slope Up~~ 0.500 mV/Sec

~~Slope Down 1.500 mV/Sec~~

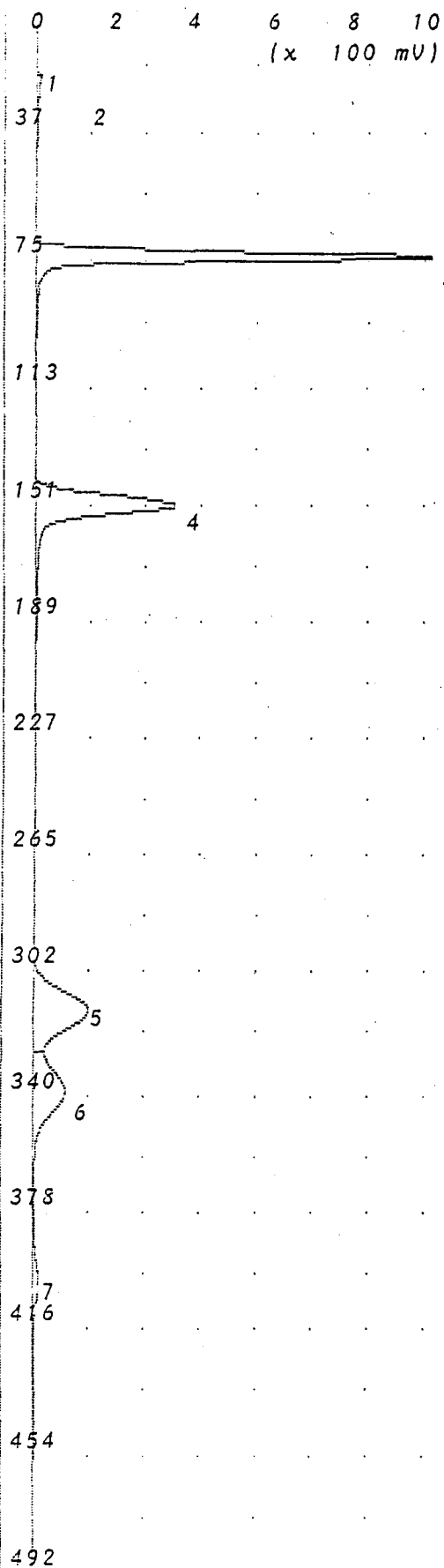
~~Min Area 0.000 mVSec~~

~~Min. Height - 0.000 MV~~

Revised: 11/1/2011

1

Modelle National



Time Printed: Oct 27, 94 10:14

Sample Time: Oct 27, 94 10:05

Method

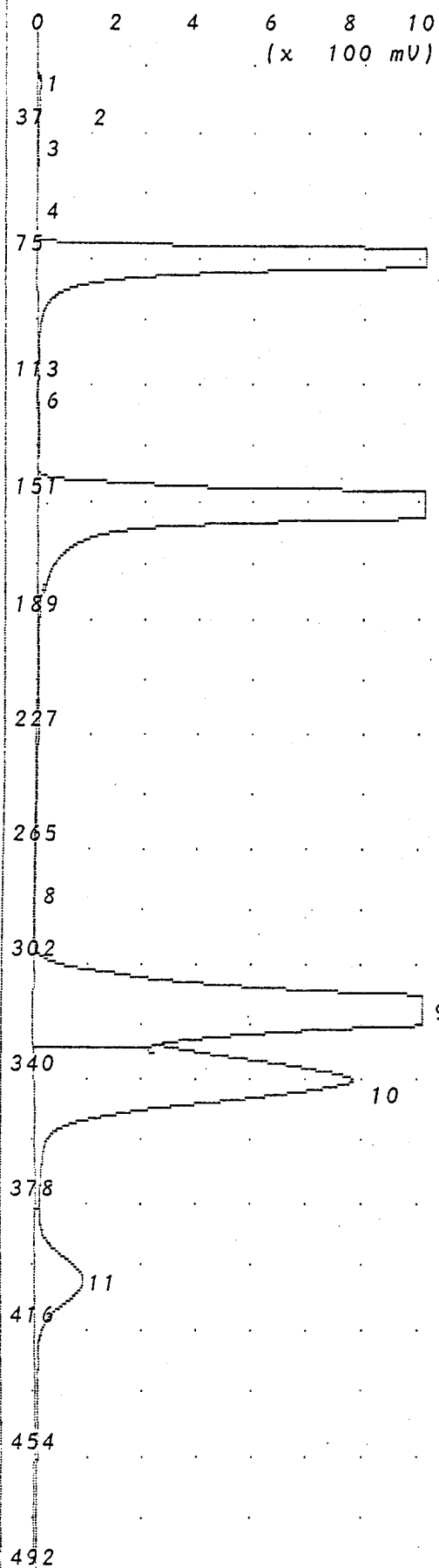
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.8 mVS	19.0
2	Unknown	1.834 mVS	28.2
3	Benzene	809.1 ppb	71.8
4	Toluene	865.3 ppb	149.0
5	Ethylbenzene	838.0 ppb	312.5
6	MP Xylene	1.673 ppm	336.6
7	O Xylene	894.4 ppb	398.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX standard



Time Printed: Oct 27, 94 10:27

Sample Time: Oct 27, 94 10:18

Method

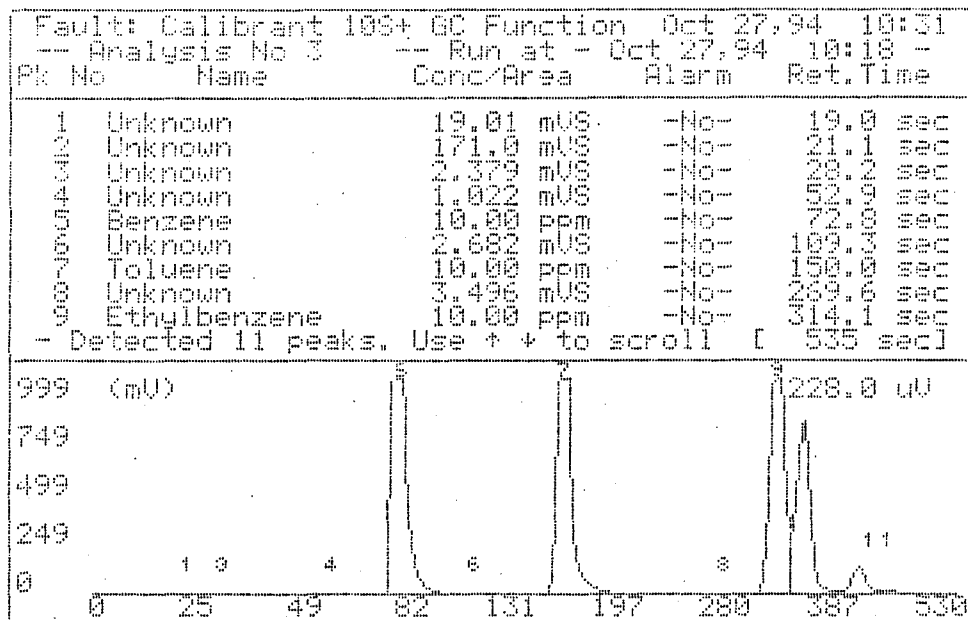
Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 32 C
 Max Gain 1000
 Analysis Time 530.0 sec

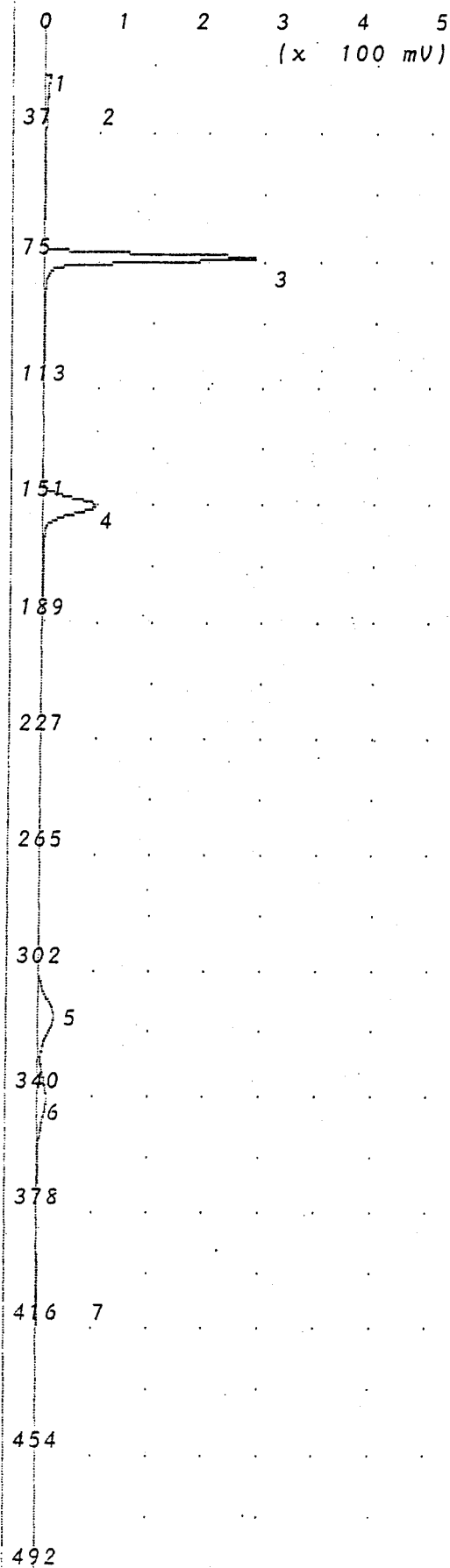
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	18.98 mVS	19.0
2	Unknown	163.6 mVS	21.1
3	Unknown	2.379 mVS	28.2
4	Unknown	1.022 mVS	52.9
5	Benzene	7.914 ppm	72.8
6	Unknown	2.682 mVS	109.3
7	Toluene	8.330 ppm	150.0
8	Unknown	3.496 mVS	269.6
9	Ethylbenzene	6.613 ppm	314.1
10	MP Xylene	9.221 ppm	338.3
11	O Xylene	5.547 ppm	399.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 10 ppm BTEX Standard





Time Printed: Oct 27,94 11:59

Sample Time: Oct 27,94 11:50

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

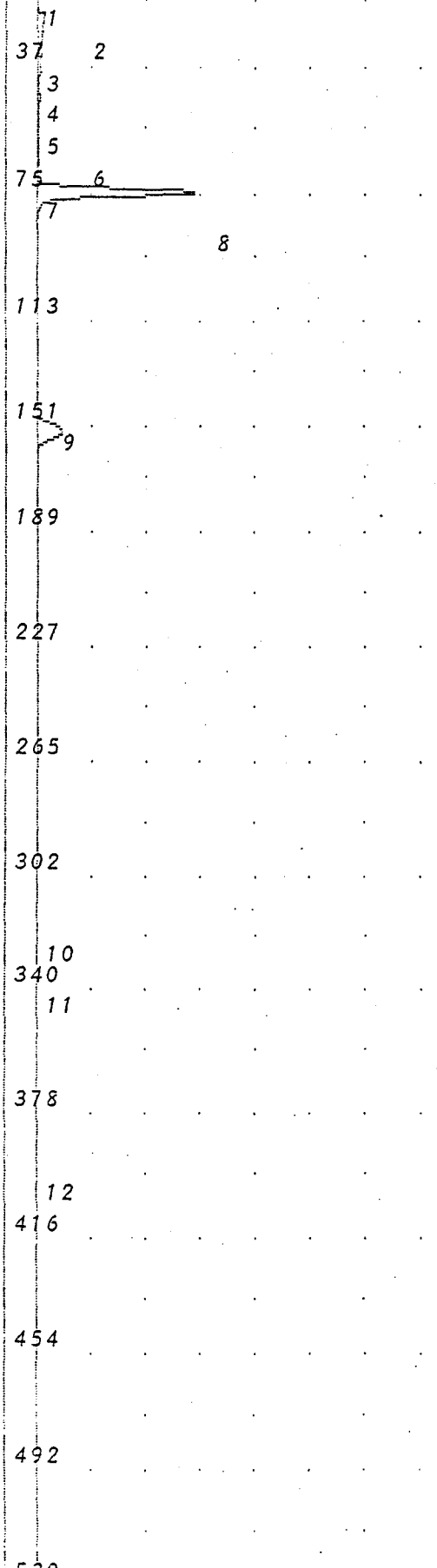
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	143.0 mVS	19.2
2	Unknown	0.912 mVS	28.4
3	Benzene	60.26 ppb	71.8
4	Toluene	52.80 ppb	149.4
5	Ethylbenzene	61.95 ppb	311.7
6	MP Xylene	126.1 ppb	339.0
7	O Xylene	74.96 ppb	400.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

0 1 2 3 4 5
(x 100 mV)



Time Printed: Oct 27, 94 14:36

Sample Time: Oct 27, 94 14:27

Method

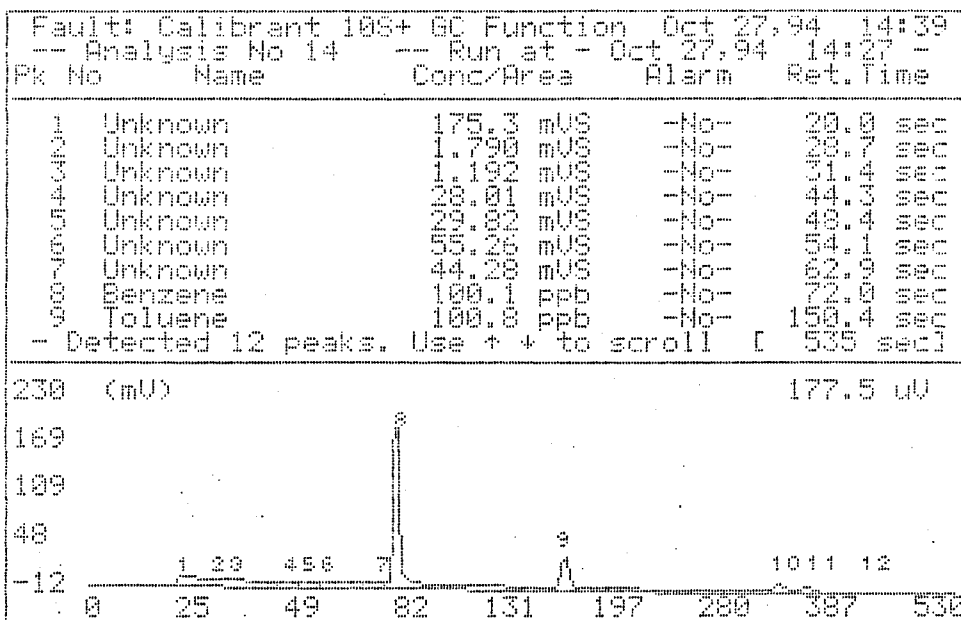
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

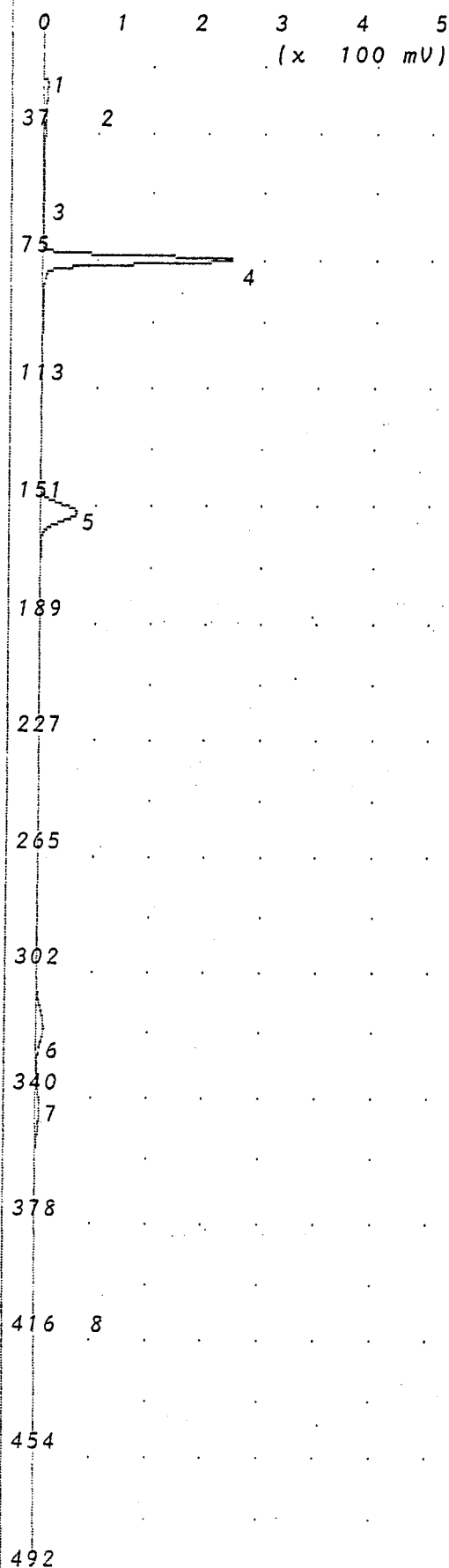
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	175.3 mVS	20.0
2	Unknown	1.790 mVS	28.7
3	Unknown	1.192 mVS	31.4
4	Unknown	27.99 mVS	44.3
5	Unknown	29.80 mVS	48.4
6	Unknown	55.22 mVS	54.1
7	Unknown	44.24 mVS	62.9
8	Benzene	63.76 ppb	72.0
9	Toluene	62.39 ppb	150.4
10	Ethylbenzene	31.48 ppb	315.7
11	MP Xylene	82.44 ppb	340.6
12	O Xylene	57.15 ppb	400.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
~~QA/QC Split Spoon (EQ)~~
100 ppb BTEX STD (ME)





Time Printed: Oct 27,94 15:57

Sample Time: Oct 27,94 15:49

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

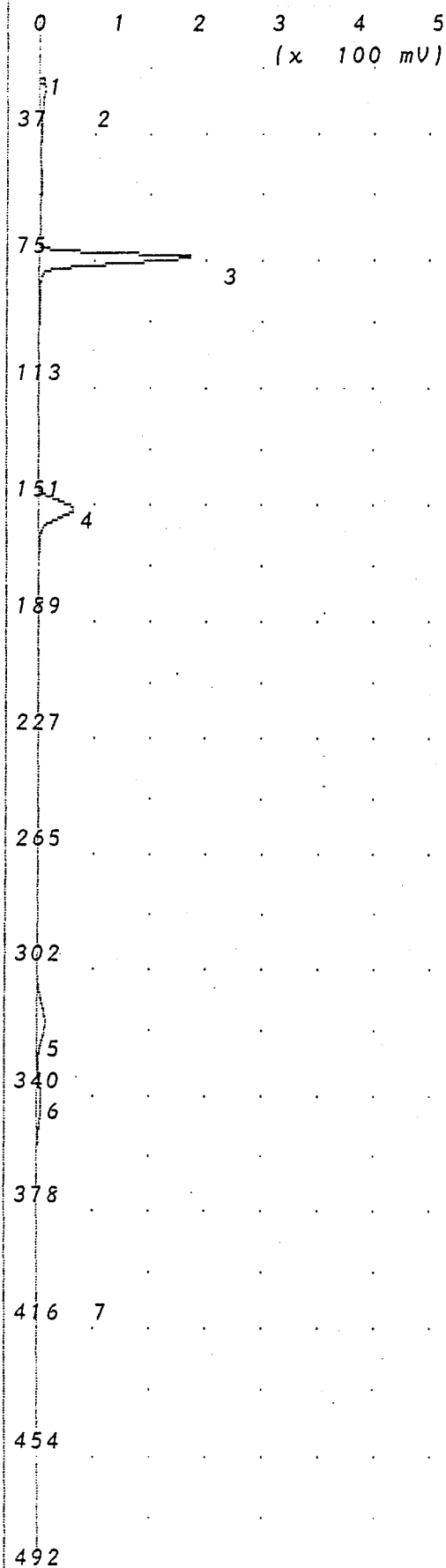
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	160.8 mVS	20.3
2	Unknown	0.674 mVS	29.3
3	Unknown	0.584 mVS	54.3
4	Benzene	85.97 ppb	72.9
5	Toluene	61.00 ppb	151.0
6	Ethylbenzene	101.6 ppb	316.8
7	MP Xylene	170.2 ppb	341.6
8	O Xylene	69.66 ppb	402.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100ppb BTEX Standard

0	1	2	3	4	5	Time Printed: Oct 27,94 16:00
			(x 100 uV)			Sample Time: Oct 27,94 16:00
						Method
37						Slope Up 0.500 mV/Sec
						Slope Down 1.500 mV/Sec
						Min Area 1.000 mVSec
						Min Height 0.100 mV
75						Analysis Delay 0.0 sec
						Window Percent 10.0 %
						Det Flow 10 ml/min
						B/F Flow 10 ml/min
113						Aux Flow 0 ml/min
						Oven Temp 40 C
						Amb Temp 34 C
151						Max Gain 1000
						Analysis Time 530.0 sec
						Peak Report
						Pk Compound Name Area/Conc R.T.
189						
227						
265						
302						
340						
378						
416						Notes
						Mark Escobar
						Billy Mitchell Air National
						Guard Base
454						100ppb BTEX Standard
492						
530						



Time Printed: Oct 27,94 16:11

Sample Time: Oct 27,94 16:02

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

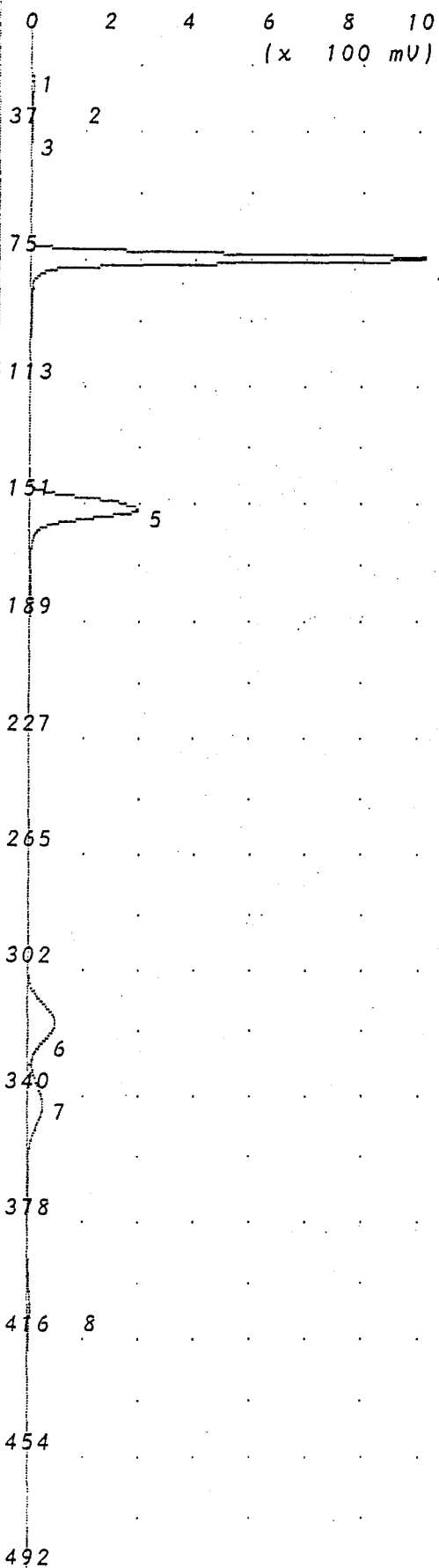
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	13.65 mVS	18.9
2	Unknown	98.93 mVS	21.5
3	Benzene	74.68 ppb	71.8
4	Toluene	57.42 ppb	150.4
5	Ethylbenzene	104.1 ppb	316.0
6	MP Xylene	173.4 ppb	341.0
7	O Xylene	77.94 ppb	402.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100ppb BTEX Standard

Analysis #23 10S+ GC Function Analysis Report



Time Printed: Oct 27, 94 16:23

Sample Time: Oct 27, 94 16:14

Method

Slope Up 0.500 mV/Sec
 Slope Down 1.500 mV/Sec
 Min Area 1.000 mVSec
 Min Height 0.100 mV
 Analysis Delay 0.0 sec
 Window Percent 10.0 %
 Det Flow 10 ml/min
 B/F Flow 10 ml/min
 Aux Flow 0 ml/min
 Oven Temp 40 C
 Amb Temp 34 C
 Max Gain 1000
 Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.89 mVS	19.5
2	Unknown	45.65 mVS	21.3
3	Unknown	54.02 mVS	28.6
4	Benzene	1.258 ppm	72.8
5	Toluene	788.0 ppb	150.8
6	Ethylbenzene	489.2 ppb	316.0
7	MP Xylene	918.0 ppb	341.0
8	O Xylene	492.9 ppb	402.0

Notes

Mark Escobar
 Billy Mitchell Air National
 Guard Base
 1 ppm BTEX Standard

0	1	2	3	4	5
			(x 100 uV)		
37					
75					
113					
151					
189					
227					
265					
302					
340					
378					
416					
454					
492					
530					

Time Printed: Oct 27,94 16:55

Sample Time: Oct 27,94 16:55

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
----	---------------	-----------	------

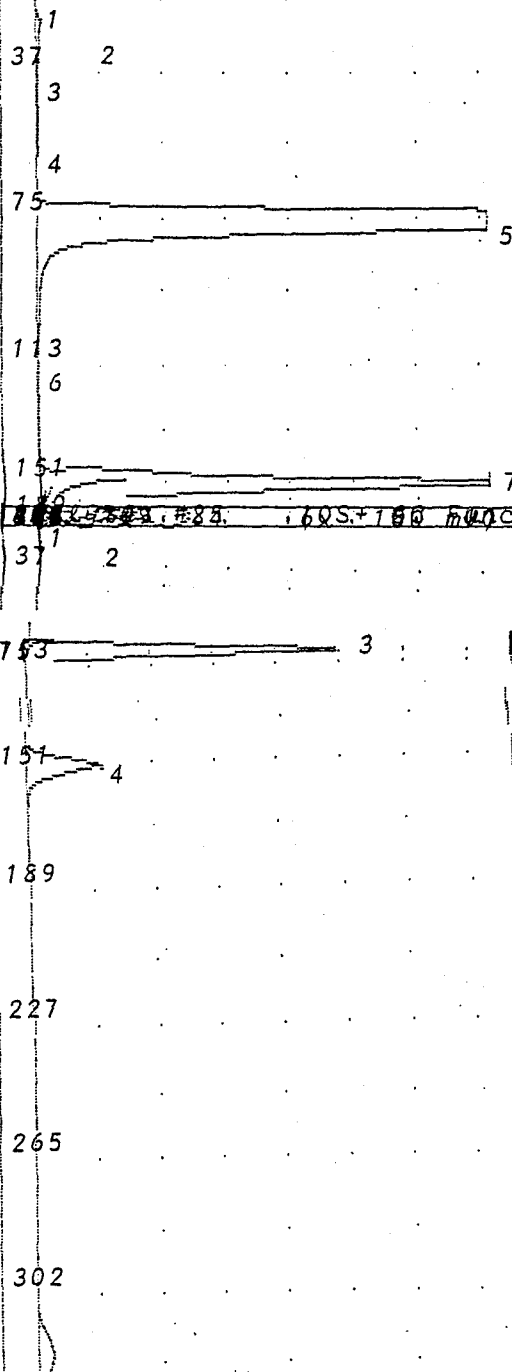
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard Update

Analysis #24

10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 100 mV)



Time Printed: Oct 27, 94 16:36

Sample Time: Oct 27, 94 16:27

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

GC Hardware Name: Research 8876 Cane 8918
GC Software Name: GC 8.00

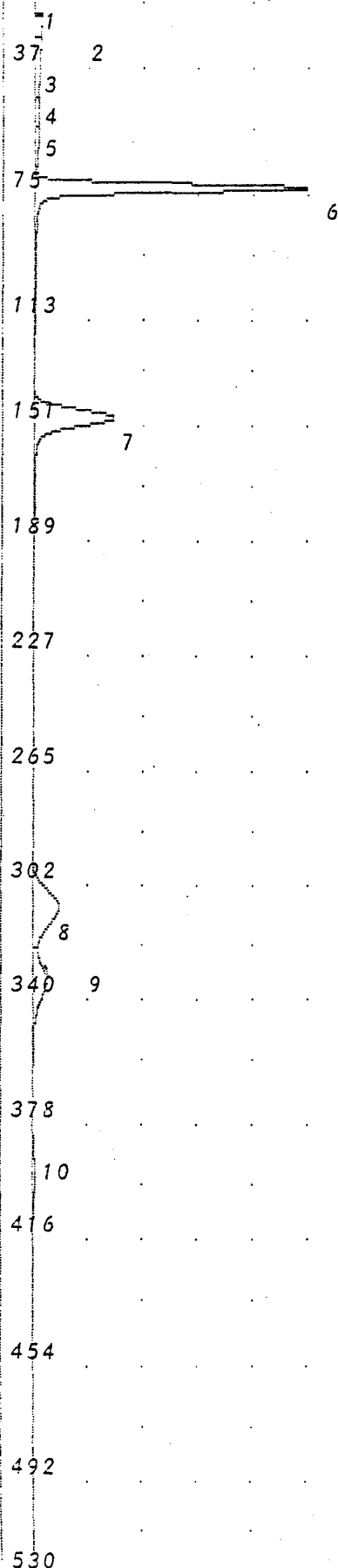
Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 1010 sec
Oven Temp 40 C
Amb Temp 100.05 C
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	78.39 mVS	19.0
2	Unknown	0.409 mVS	28.4
3	Benzene	504.5 ppb	72.5
4	Toluene	538.3 ppb	150.2
5	Ethylbenzene	478.2 ppb	316.0
6	MP Xylene	944.9 ppb	339.3
7	O Xylene	507.6 ppb	402.3

0 1 2 3 4 5
(x 100 mV)



Time Printed: Oct 28,94 08:40

Sample Time: Oct 28,94 08:31

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

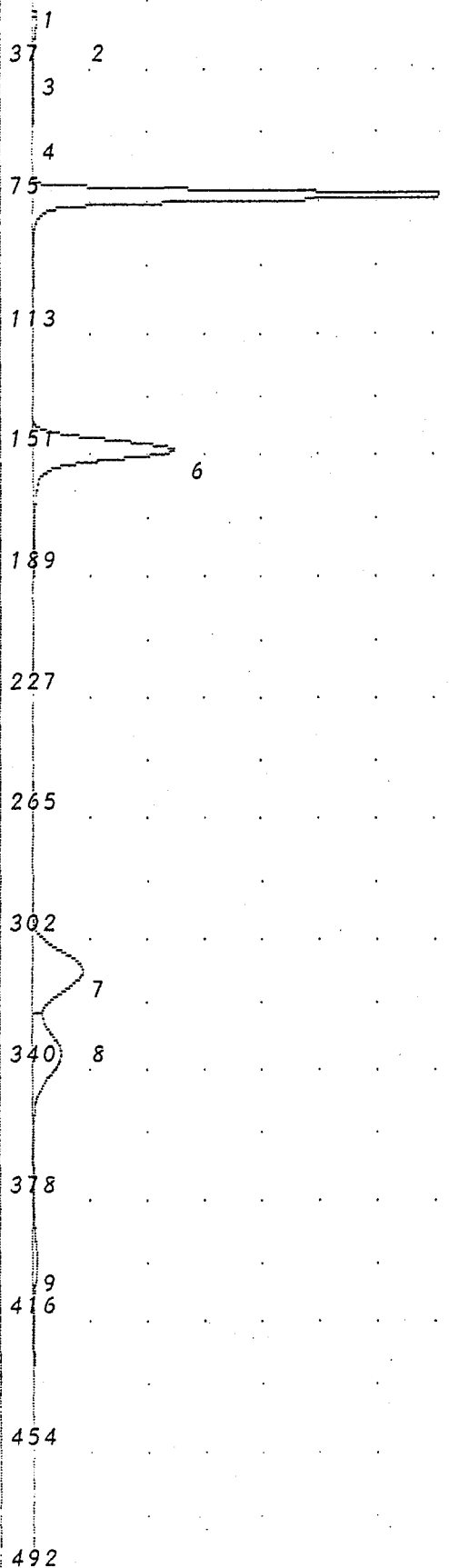
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	20.43 mVS	19.4
2	Unknown	63.63 mVS	21.0
3	Unknown	135.6 mVS	28.0
4	Unknown	58.09 mVS	45.2
5	Unknown	63.99 mVS	54.3
6	Unknown	1.238 VSec	70.9
7	Unknown	759.8 mVS	146.6
8	Unknown	468.4 mVS	307.2
9	Unknown	351.4 mVS	329.0
10	Unknown	139.9 mVS	391.0

Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
100 ppb BTEX Standard

0 2 4 6 8 10
(x 100 mV)



Time Printed: Oct 28, 94 08:57

Sample Time: Oct 28, 94 08:48

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 1.000 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

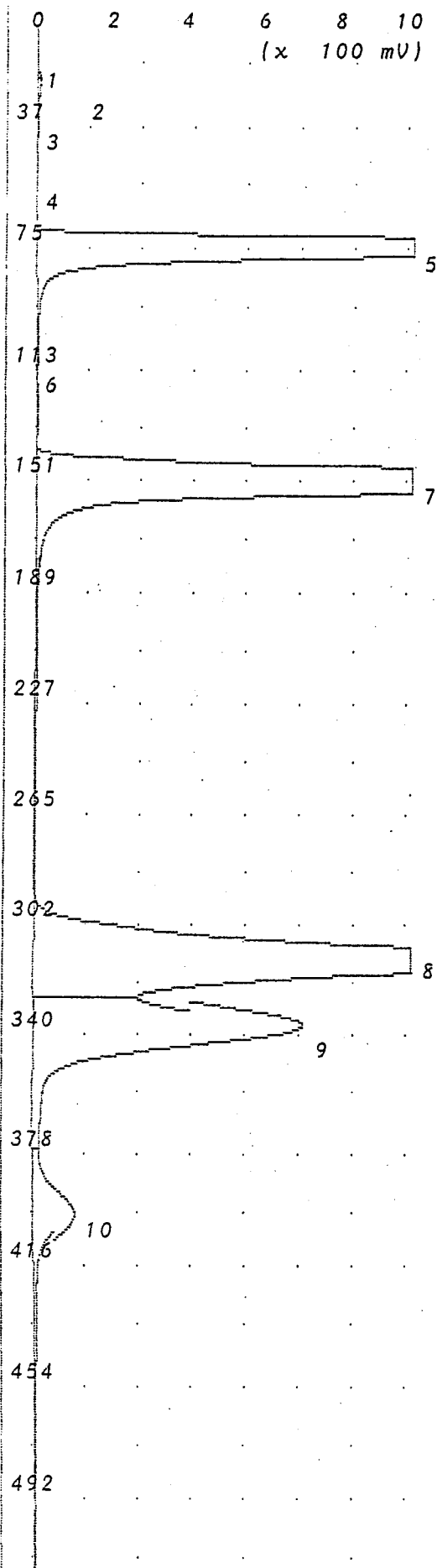
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	20.67 mVS	19.6
2	Unknown	63.26 mVS	21.0
3	Unknown	71.83 mVS	28.0
4	Unknown	0.477 mVS	54.0
5	Benzene	331.0 ppb	71.6
6	Toluene	337.0 ppb	147.8
7	Ethylbenzene	370.1 ppb	309.6
8	M/P Xylene	345.6 ppb	333.6
9	O-Xylene	257.4 ppb	394.0

Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
100 ppb BTEX Standard
M

(100)



Time Printed: Oct 28, 94 09:10

Sample Time: Oct 28, 94 09:01

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 1.000 mVSec

Min Height 0.100 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp. 40 C

Amb Temp 32 C

Max Gain	1000
----------	------

Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	17.53 mVS	19.5
2	Unknown	142.5 mVS	21.5
3	Unknown	1.705 mVS	28.4
4	Unknown	0.650 mVS	52.8
5	Benzene	5.746 ppm	72.8
6	Unknown	3.171 mVS	108.6
7	Toluene	8.669 ppm	148.8
8	Ethylbenzene	13.68 ppm	311.4
9	M/P Xylene	26.26 ppm	334.9
10	O-Xylene	10.08 ppm	395.0

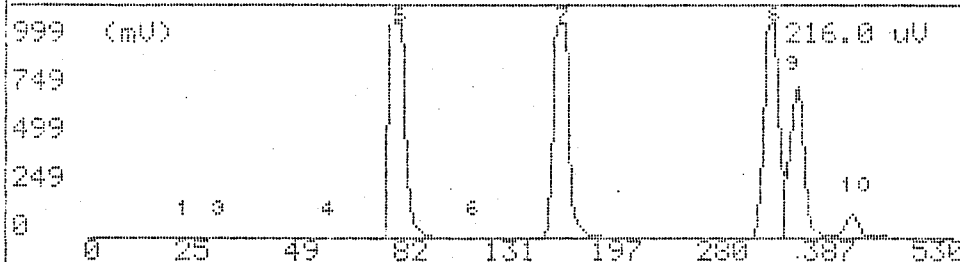
Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
10 ppm BTEX Standard

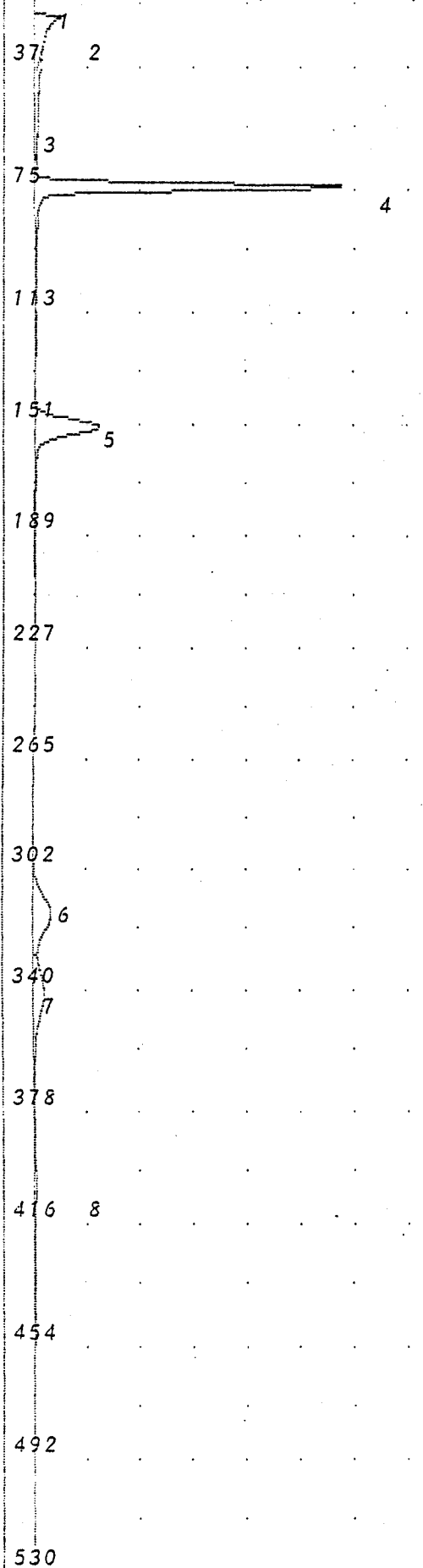
G.C. Ready 108+ GC Function Oct 28, 94 09:14
 -- Analysis No 3 -- Run at - Oct 28, 94 09:01 -

Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	17.53 mUS	-No-	19.5 sec
2	Unknown	142.5 mUS	-No-	21.5 sec
3	Unknown	1.705 mUS	-No-	28.4 sec
4	Unknown	0.650 mUS	-No-	32.00 sec
5	Benzene	10.01 ppm	-No-	72.00 sec
6	Unknown	3.171 mUS	-No-	108.6 sec
7	Toluene	10.02 ppm	-No-	148.0 sec
8	Ethylbenzene	10.00 ppm	-No-	311.4 sec
9	M/P Xylene	10.00 ppm	-No-	334.9 sec

- Detected 10 peaks. Use + + to scroll [535 sec]



0 4 8 12 16 20
(x 10 mV)



Time Printed: Oct 28,94 10:45
Sample Time: Oct 28,94 10:29

Method

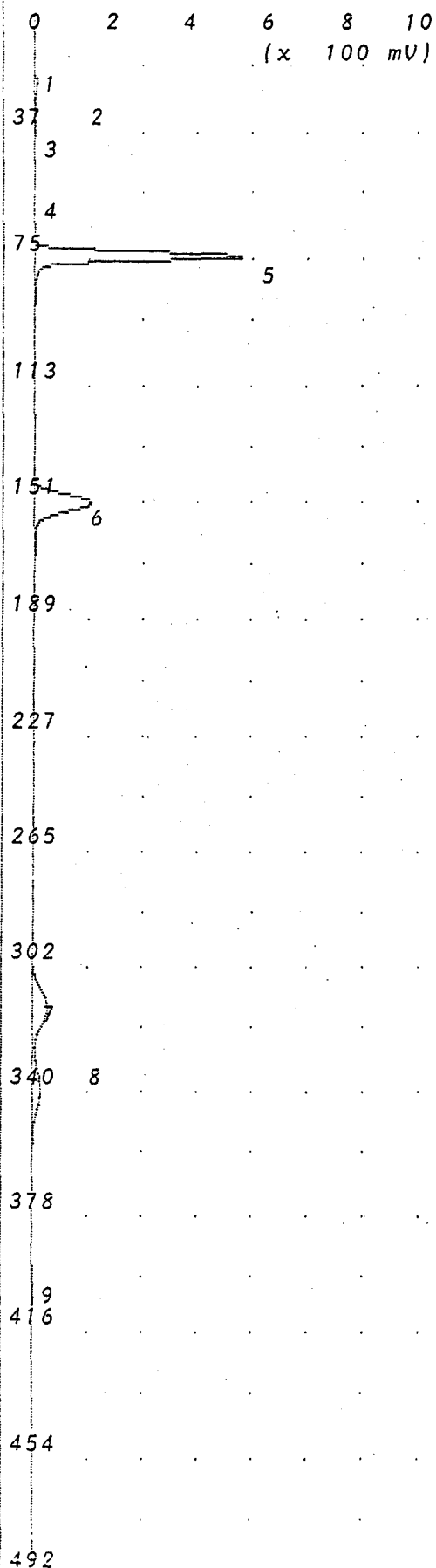
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 200.0 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 33 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	170.5 mVS	19.8
2	Unknown	0.346 mVS	28.8
3	Unknown	0.671 mVS	54.3
4	Unknown	500.8 mVS	72.2
5	Unknown	222.9 mVS	149.8
6	Unknown	134.4 mVS	314.4
7	Unknown	118.1 mVS	339.3
8	Unknown	47.56 mVS	400.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
100 ppb BTEX Standard



Time Printed: Oct 28, 94 10:56

Sample Time: Oct 28, 94 10:47

Method

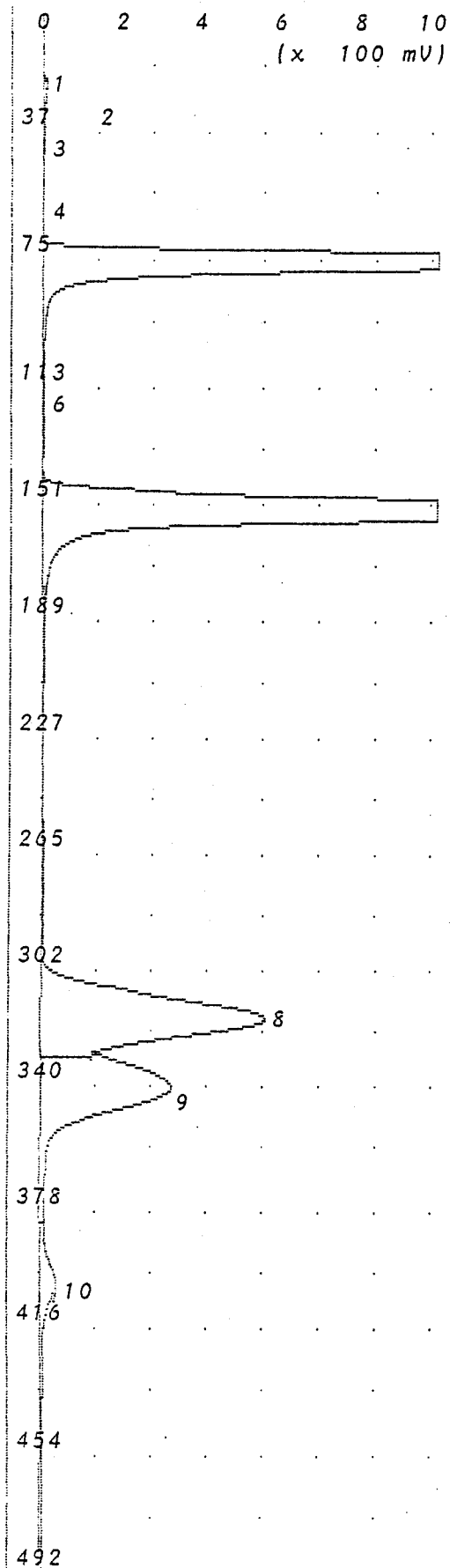
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 200.0 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.497 mVS	14.3
2	Unknown	164.1 mVS	20.0
3	Unknown	0.806 mVS	28.8
4	Unknown	0.770 mVS	54.4
5	Benzene	375.1 ppb	72.5
6	Toluene	464.7 ppb	149.4
7	Ethylbenzene	379.0 ppb	312.8
8	MP Xylene	641.8 ppb	333.6
9	Unknown	123.3 mVS	398.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard



Time Printed: Oct 28,94 11:08

Sample Time: Oct 28,94 10:59

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 200.0 mVSec
Min Height 0.100 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

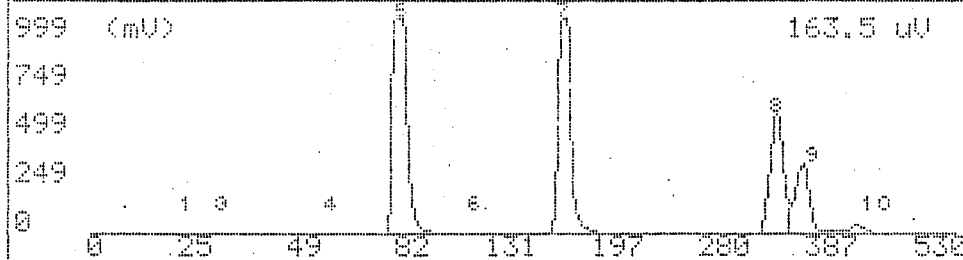
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.11 mVS	20.0
2	Unknown	59.64 mVS	21.8
3	Unknown	84.89 mVS	28.8
4	Unknown	16.20 mVS	53.8
5	Benzene	9.919 ppm	73.4
6	Unknown	1.659 mVS	109.2
7	Toluene	15.12 ppm	150.4
8	Ethylbenzene	19.58 ppm	314.6
9	MP Xylene	39.83 ppm	338.6
10	O Xylene	12.81 ppm	398.6

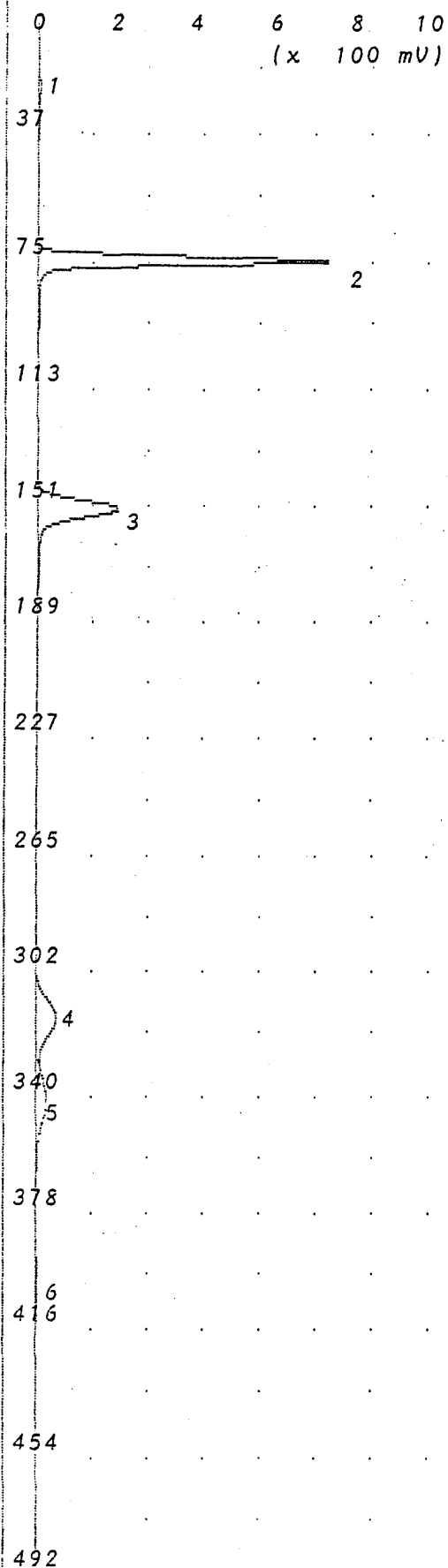
Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
10 ppm BTEX Standard

G.C. Reedy		108+ GC Function	Oct 28, 94	11:12
Analysis No 3		Run at -	Oct 28, 94	10:59
Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	21.11 mUS	-No-	20.0 sec
2	Unknown	59.64 mUS	-No-	21.0 sec
3	Unknown	84.89 mUS	-No-	28.0 sec
4	Unknown	16.20 mUS	-No-	53.0 sec
5	Benzene	10.00 ppm	-No-	73.4 sec
6	Unknown	1.659 mUS	-No-	109.2 sec
7	Toluene	10.00 ppm	-No-	150.4 sec
8	Ethylbenzene	10.00 ppm	-No-	314.6 sec
9	MP Xylene	20.00 ppm	-No-	338.6 sec
- Detected 10 peaks. Use + + to scroll [535 sec]				



Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:34

Sample Time: Oct 28,94 12:25

Method

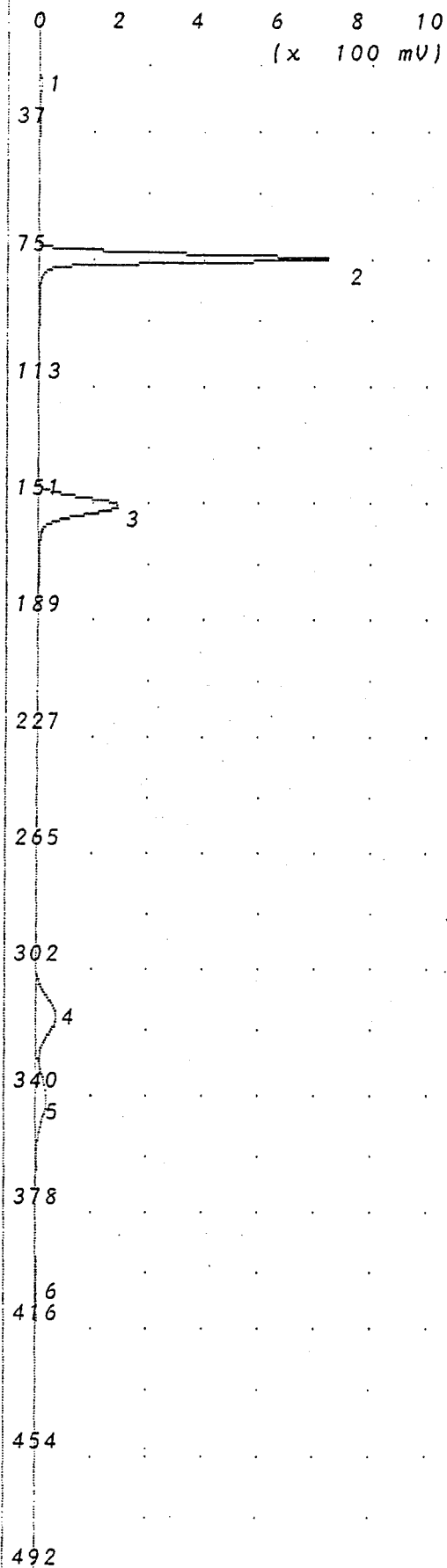
Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.3 mVS	19.8
2	Benzene	1.414 ppm	72.6
3	Toluene	1.327 ppm	148.8
4	Ethylbenzene	1.233 ppm	314.6
5	MP Xylene	2.446 ppm	339.3
6	Unknown	178.1 mVS	400.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard



Time Printed: Oct 28, 94 12:37

Sample Time: Oct 28, 94 12:25

Method

Slope Up 0.500 mV/Sec
Slope Down 0.500 mV/Sec
Min Area 200.0 mVSec
Min Height 1.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 10 ml/min
B/F Flow 10 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

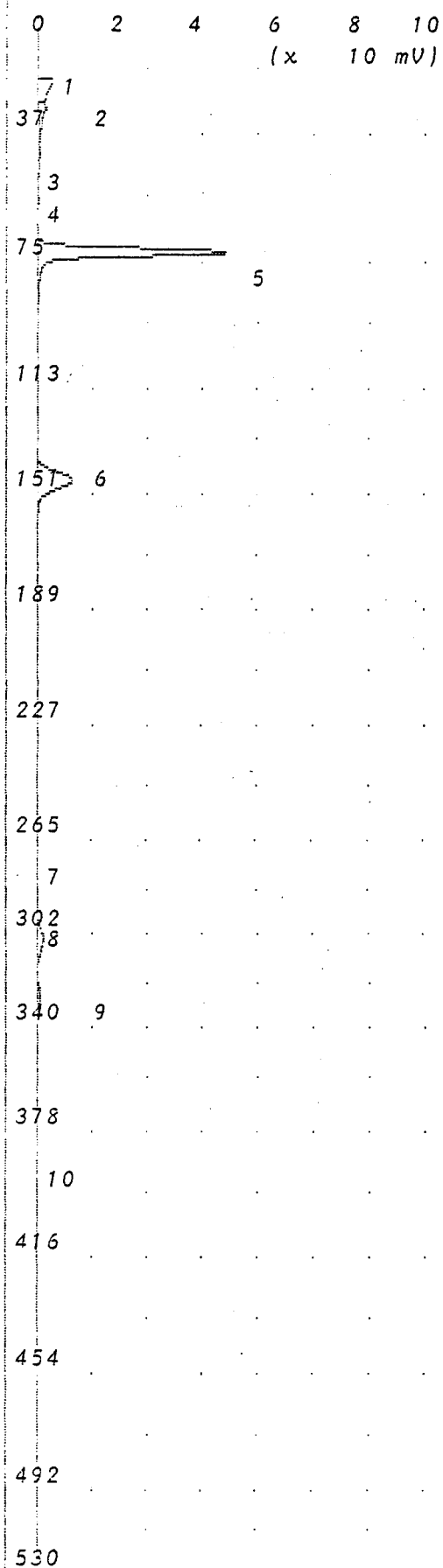
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.5 mVS	19.8
2	Benzene	1.000 ppm	72.6
3	Toluene	1.001 ppm	148.8
4	Ethylbenzene	1.000 ppm	314.6
5	MP Xylene	2.002 ppm	339.3
6	Unknown	180.7 mVS	400.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard

Analysis #1

10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 08:23

Sample Time: Oct 29, 94 08:14

Method

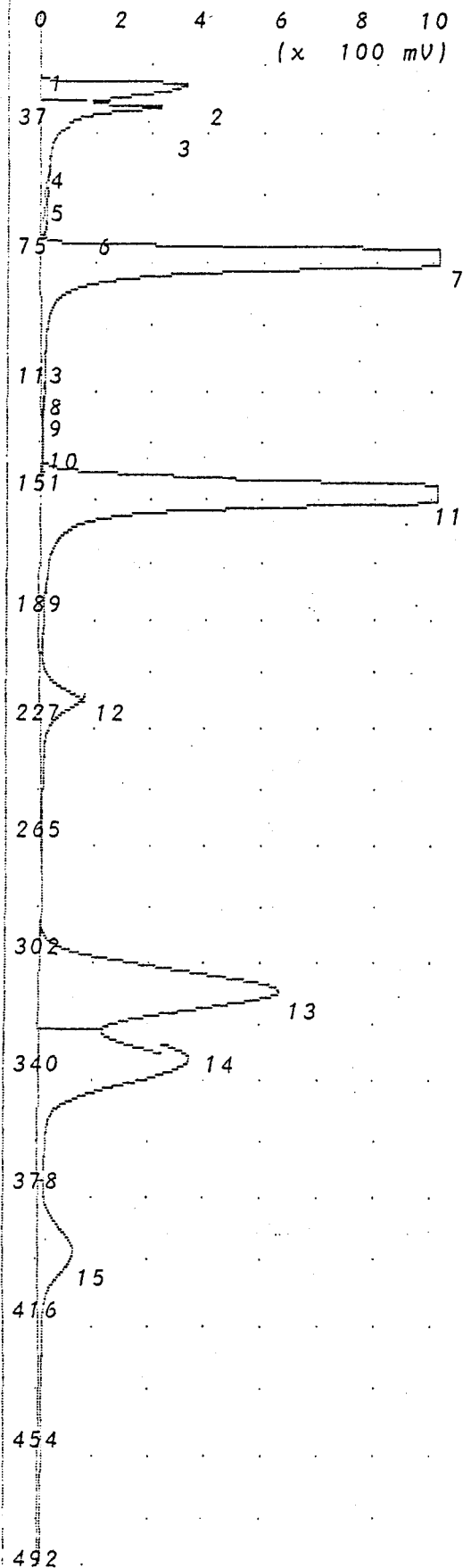
Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 29 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	24.29 mVS	18.9
2	Unknown	13.84 mVS	27.9
3	Unknown	0.026 mVS	44.8
4	Unknown	1.430 mVS	54.8
5	Unknown	142.6 mVS	70.1
6	Unknown	65.72 mVS	145.0
7	Unknown	1.556 mVS	269.3
8	Unknown	37.14 mVS	302.4
9	Unknown	34.15 mVS	327.2
10	Unknown	10.41 mVS	387.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard



Time Printed: Oct 29, 94 08:41

Sample Time: Oct 29, 94 08:32

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 31 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

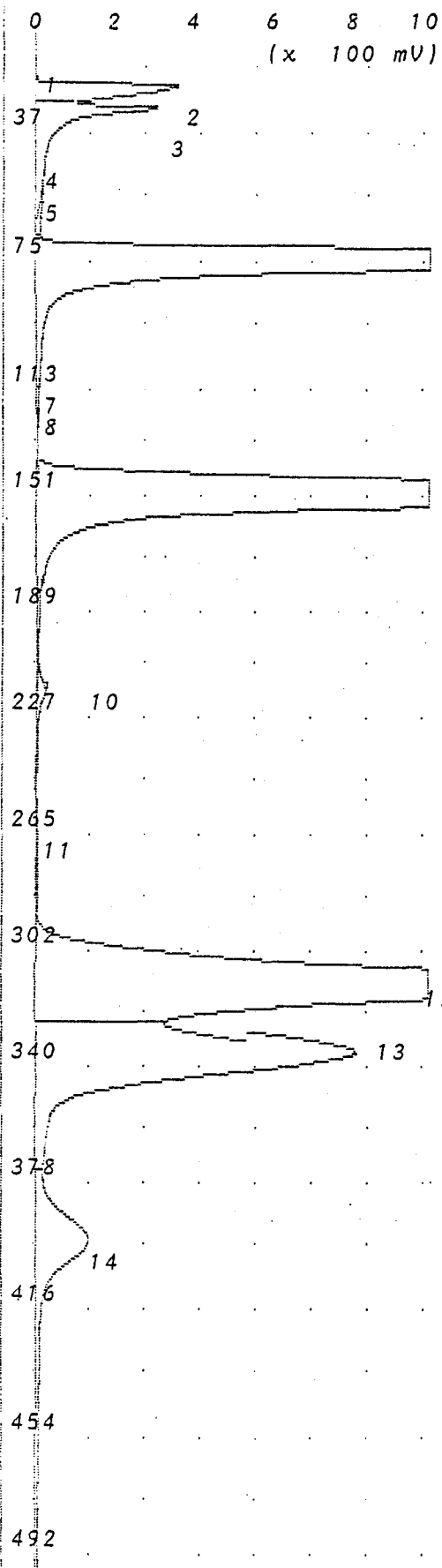
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.424 mVS	18.8
2	Unknown	1.786 VSec	21.1
3	Unknown	1.840 VSec	28.0
4	Unknown	2.289 mVS	45.6
5	Unknown	4.771 mVS	52.4
6	Unknown	2.301 mVS	60.6
7	Benzene	12.07 ppm	71.8
8	Unknown	3.552 mVS	108.5
9	Unknown	7.691 mVS	113.8
10	Unknown	0.053 mVS	134.8
11	Toluene	19.67 ppm	147.4
12	Unknown	1.774 VSec	214.6
13	Ethylbenzene	24.40 ppm	308.5
14	MP Xylene	40.05 ppm	332.2
15	O Xylene	20.60 ppm	392.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard

Analysis #3

10S+ GC Function Analysis Report



Time Printed: Oct 29, 94 08:56

Sample Time: Oct 29, 94 08:47

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 32 C
Max Gain 1000
Analysis Time 530.0 sec

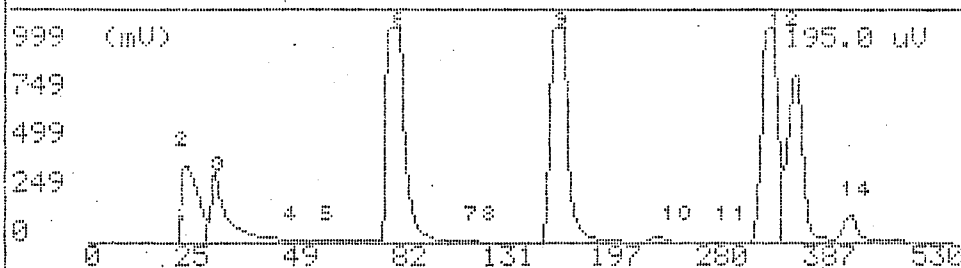
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	11.10 mVS	19.4
2	Unknown	1.608 VSec	21.3
3	Unknown	1.924 VSec	28.1
4	Unknown	3.929 mVS	45.8
5	Unknown	1.025 mVS	52.0
6	Benzene	1.280 ppm	72.5
7	Unknown	7.187 mVS	108.6
8	Unknown	1.461 mVS	114.2
9	Toluene	1.510 ppm	148.2
10	Unknown	252.0 mVS	215.0
11	Unknown	8.763 mVS	262.6
12	Ethylbenzene	2.279 ppm	310.1
13	MP Xylene	3.862 ppm	333.6
14	O Xylene	1.426 ppm	393.0

Notes

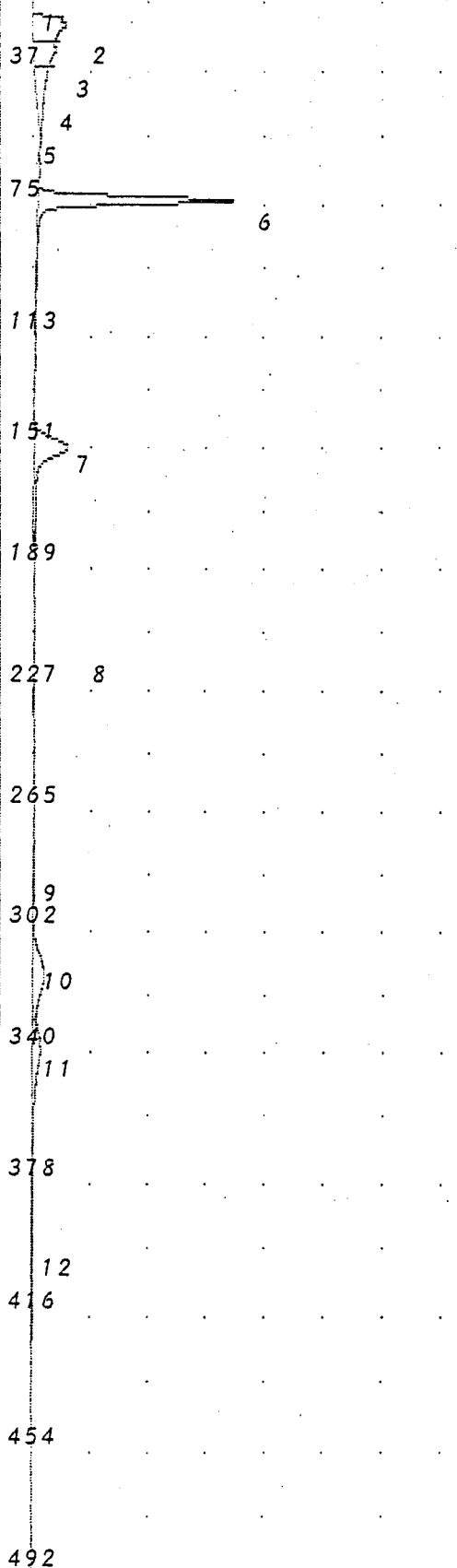
Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard

G.C. Ready		105+ GC Function		Oct 29, 94 09:01	
-- Analysis No 3		-- Run at - Oct 29, 94		08:47 -	
Pk No	Name	Conc/Area	Alarm	Ret. Time	
6	Benzene	10.00 ppm	-No-	72.5 sec	
7	Unknown	7.187 mUS	-No-	108.6 sec	
8	Unknown	1.461 mUS	-No-	114.2 sec	
9	Toluene	10.01 ppm	-No-	148.2 sec	
10	Unknown	252.0 mUS	-No-	215.0 sec	
11	Unknown	8.763 mUS	-No-	262.6 sec	
12	Ethylbenzene	10.00 ppm	-No-	310.1 sec	
13	MP Xylene	10.00 ppm	-No-	333.6 sec	
14	O Xylene	10.13 ppm	-No-	393.0 sec	
- Detected 14 peaks. Use + + to scroll [535 sec]					



Analysis #10 10S+ GC Function Analysis Report

0 2 4 6 8 10
(x 10 mV)



Time Printed: Oct 29,94 10:18

Sample Time: Oct 29,94 10:09

Method

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV
Analysis Delay 0.0 sec
Window Percent 10.0 %
Det Flow 12 ml/min
B/F Flow 12 ml/min
Aux Flow 0 ml/min
Oven Temp 40 C
Amb Temp 34 C
Max Gain 1000
Analysis Time 530.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.105 mVS	17.3
2	Unknown	11.27 mVS	19.8
3	Unknown	44.58 mVS	21.7
4	Unknown	56.91 mVS	28.9
5	Unknown	0.100 mVS	54.0
6	Benzene	93.35 ppb	72.0
7	Toluene	85.43 ppb	149.0
8	Unknown	0.981 mVS	218.2
9	Unknown	1.338 mVS	278.4
10	Ethylbenzene	100.0 ppb	313.3
11	MP Xylene	200.3 ppb	334.4
12	O Xylene	73.73 ppb	398.6

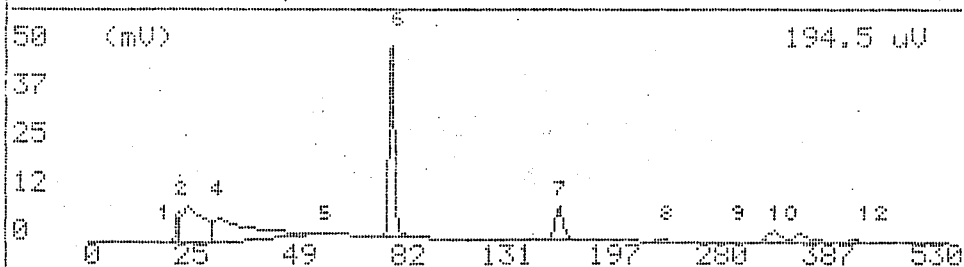
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard

G.C. Ready 10S+ GC Function Oct 29, 94 10:21
 -- Analysis No 10 -- Run at - Oct 29, 94 10:09 -

Pk No	Name	Conc/Area	Alarm	Ret. Time
1	Unknown	0.105 mV	-No-	17.3 sec
2	Unknown	11.27 mV	-No-	19.8 sec
3	Unknown	44.58 mV	-No-	21.7 sec
4	Unknown	56.91 mV	-No-	28.9 sec
5	Unknown	0.100 mV	-No-	54.0 sec
6	Benzene	99.99 ppb	-No-	72.0 sec
7	Toluene	100.0 ppb	-No-	149.0 sec
8	Unknown	0.981 mV	-No-	210.2 sec
9	Unknown	1.338 mV	-No-	270.4 sec

- Detected 12 peaks. Use + + to scroll [535 sec]



APPENDIX C
WELL CONSTRUCTION DIAGRAMS

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Project: BILLY MITCHELL

Town/City: MILWAUKEE

County: MILWAUKEE State: WISCONSIN

TOC Elev: 675.17 FT.

Ground Elev.: 672.70 FT.

Water Level: 6.24 FT FROM TOC

Total Well Depth: 19 FT.

Date Installed: 11/04/94

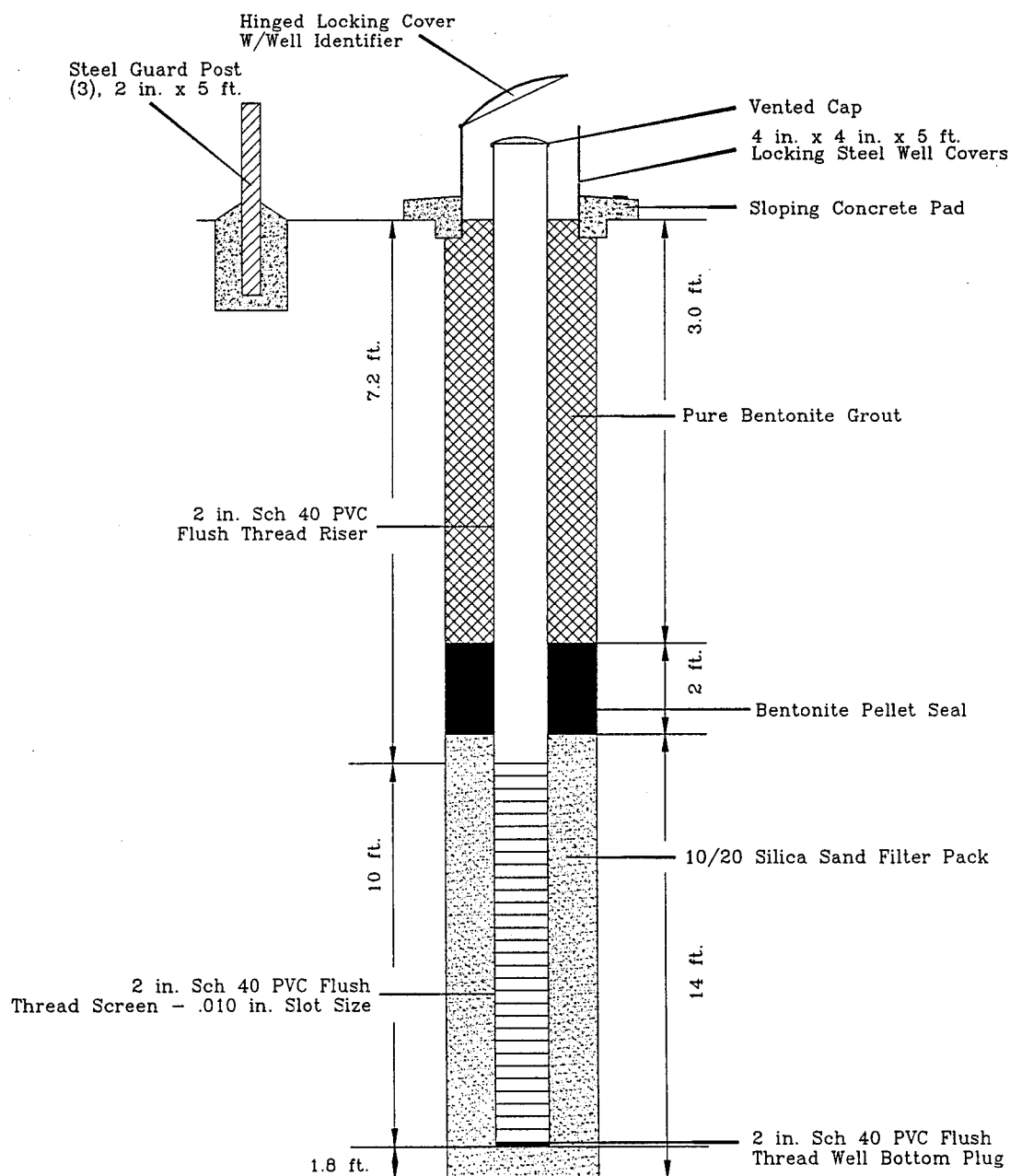
Drilling Contractor: OSI, ENV. INC.

Drilling Method: HOLLOW-STEM AUGER

Borehole Diameter: 8 INCH

Development Technique: BAILING

Not To Scale



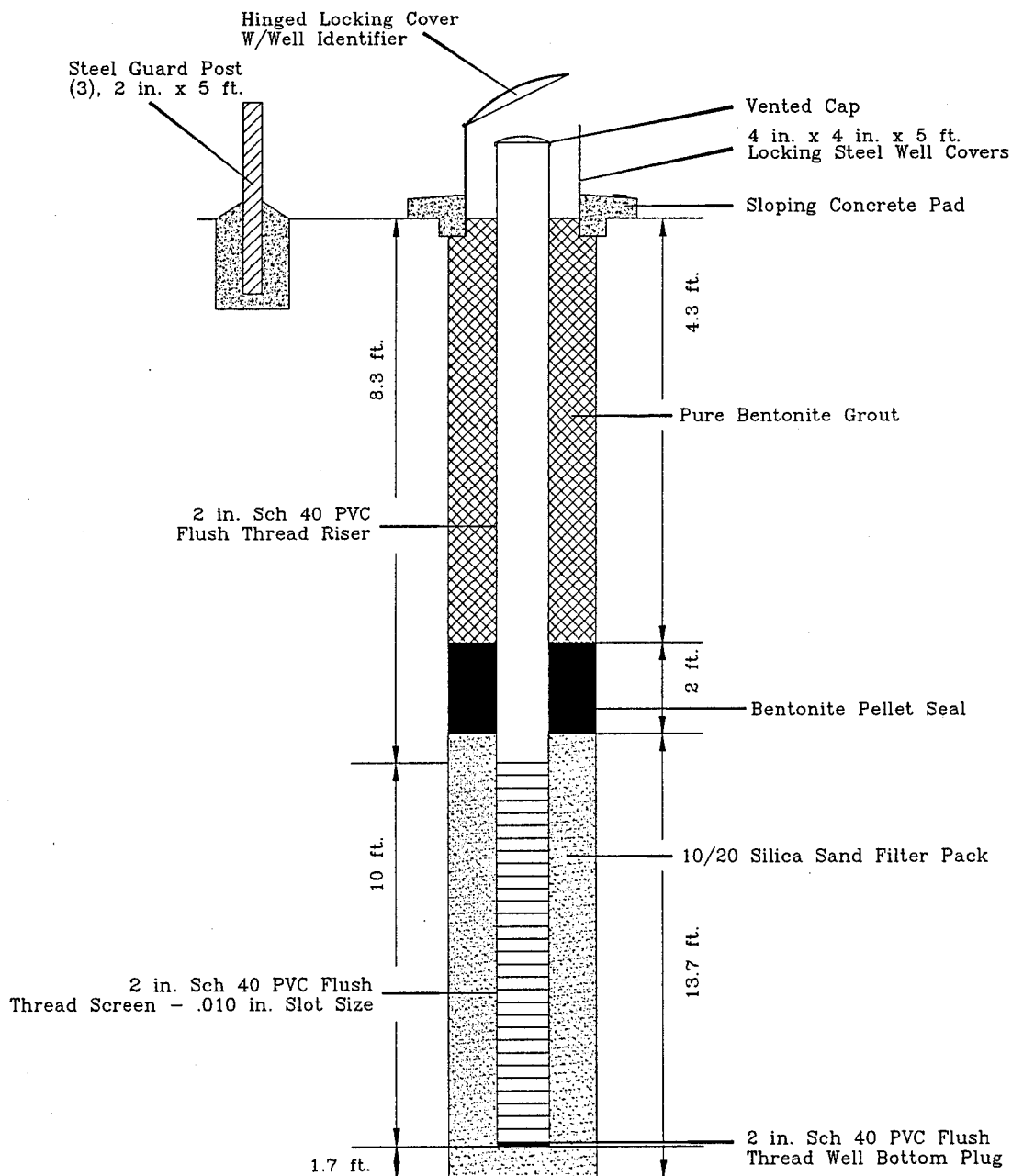
MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-001MW

OPTTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

FEBRUARY 1995

BILLY\04-001MW

Project: <u>BILLY MITCHELL</u>	Date Installed: <u>11/04/94</u>
Town/City: <u>MILWAUKEE</u>	Drilling Contractor: <u>OSI, ENV. INC.</u>
County: <u>MILWAUKEE</u> State: <u>WISCONSIN</u>	Drilling Method: <u>HOLLOW-STEM AUGER</u>
TOC Elev: <u>672.23 FT.</u>	Borehole Diameter: <u>8 INCH</u>
Ground Elev.: <u>670.80 FT.</u>	Development Technique: <u>BAILING</u>
Water Level: <u>7.42 FT. FROM TOC</u>	
Total Well Depth: <u>20 FT.</u>	Not To Scale



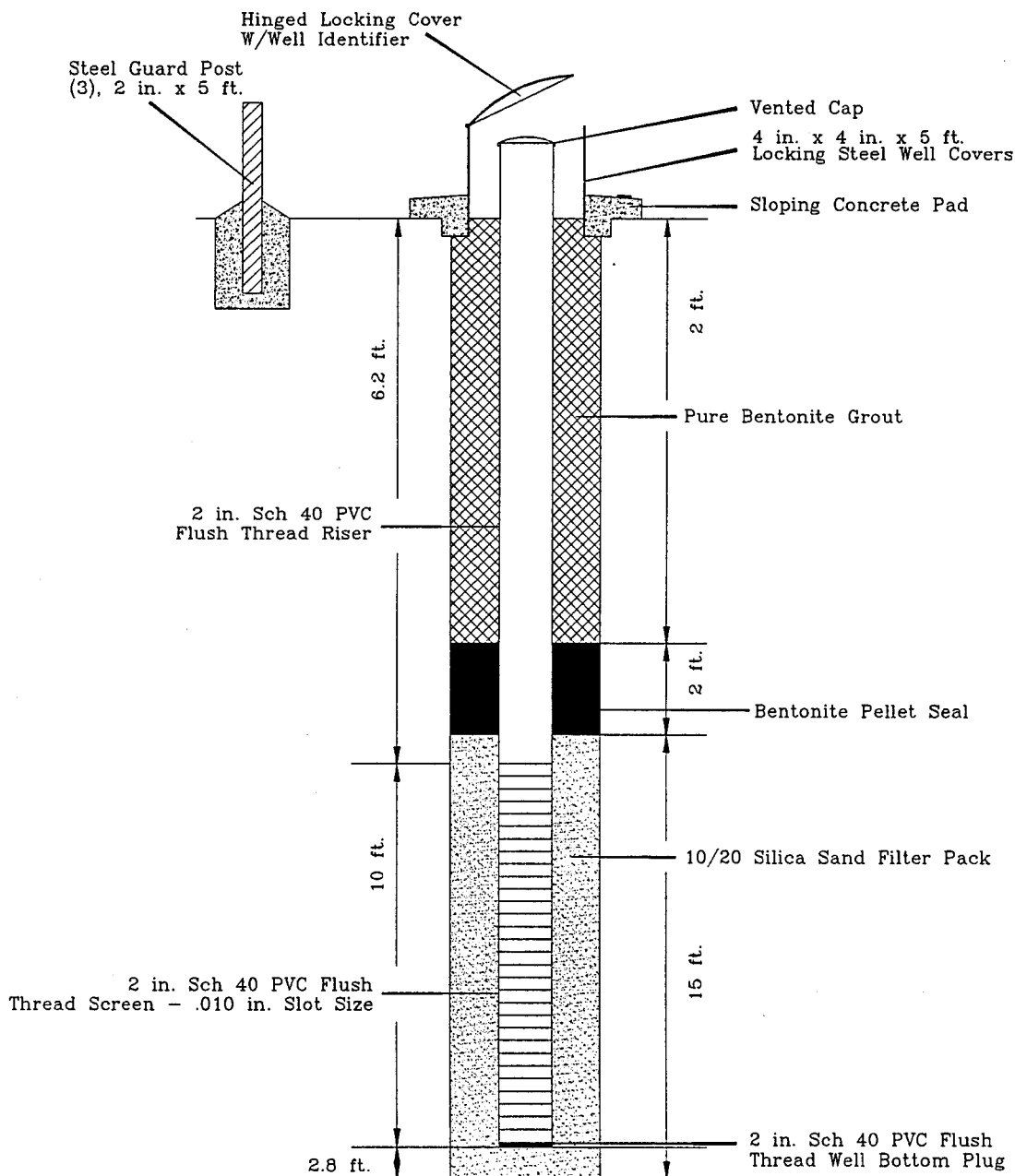
MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-002MW

OPTTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

FEBRUARY 1995

BILLY\04-002MW

Project: <u>BILLY MITCHELL</u>	Date Installed: <u>11/04/94</u>
Town/City: <u>MILWAUKEE</u>	Drilling Contractor: <u>OSI, ENV. INC.</u>
County: <u>MILWAUKEE</u> State: <u>WISCONSIN</u>	Drilling Method: <u>HOLLOW-STEM AUGER</u>
TOC Elev: <u>673.64 FT.</u>	Borehole Diameter: <u>8 INCH</u>
Ground Elev.: <u>670.60 FT.</u>	Development Technique: <u>BAILING</u>
Water Level: <u>5.78 FT. FROM TOC</u>	
Total Well Depth: <u>19 FT.</u>	Not To Scale



MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-003MW

OPTTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

FEBRUARY 1995

BILLY\04-003MW

Project: BILLY MITCHELL

Town/City: MILWAUKEE

County: MILWAUKEE State: WISCONSIN

TOC Elev: 675.96 FT.

Ground Elev.: 673.56 FT.

Water Level: 7.21 FT. FROM TOC

Total Well Depth: 19 FT.

Date Installed: 11/04/94

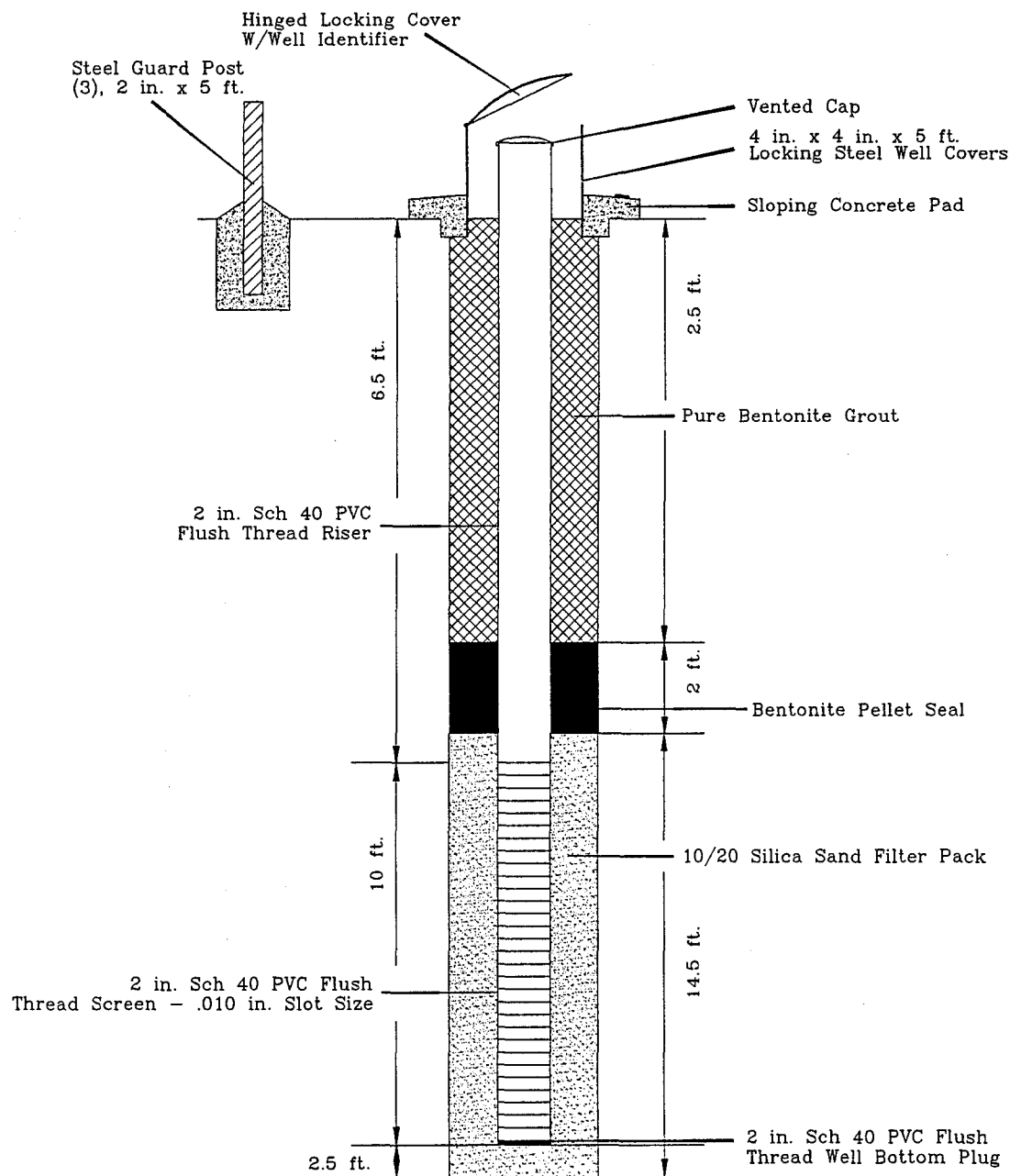
Drilling Contractor: OSI, ENV. INC.

Drilling Method: HOLLOW-STEM AUGER

Borehole Diameter: 8 INCH

Development Technique: BAILING

Not To Scale



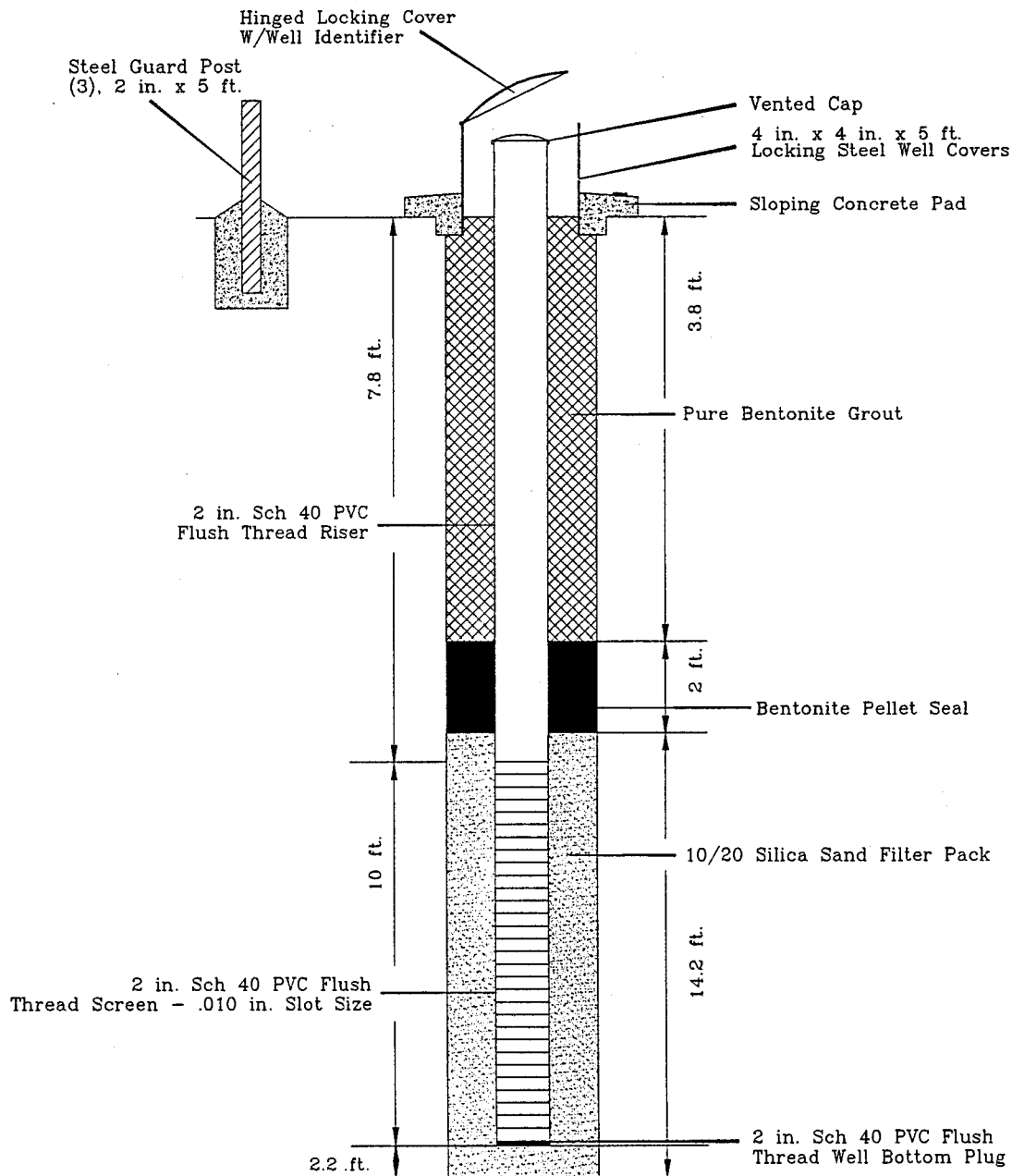
MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-004MW

OPTTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

FEBRUARY 1995

BILLY\04-004MW

Project: <u>BILLY MITCHELL</u>	Date Installed: <u>11/04/94</u>
Town/City: <u>MILWAUKEE</u>	Drilling Contractor: <u>OSI, ENV. INC.</u>
County: <u>MILWAUKEE</u> State: <u>WISCONSIN</u>	Drilling Method: <u>HOLLOW-STEM AUGER</u>
TOC Elev: <u>676.20 FT.</u>	Borehole Diameter: <u>8 INCH</u>
Ground Elev.: <u>673.80 FT.</u>	Development Technique: <u>BAILING</u>
Water Level: <u>5.92 FT. FROM</u> TOC	
Total Well Depth: <u>20 FT.</u>	Not To Scale



MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-005MW

OPTTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

FEBRUARY 1995

BILLY\04-005MW

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